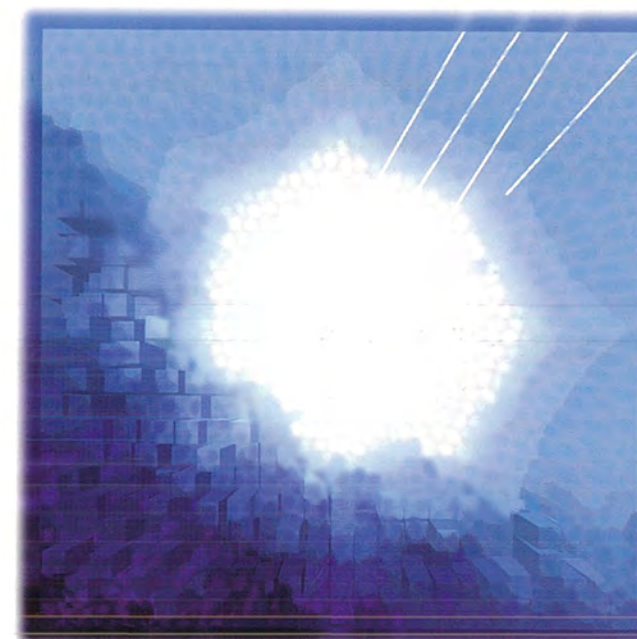




THE UNIVERSITY OF NEW SOUTH WALES



Industrial
Design
Graduand
Exhibition

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Aust. CP Eng, MDIA, MPACIA.

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Wilson Ma
Mark Vozzo
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Guests:

Anne Tamatana
Stephanie Watson

Web Page:

Brian Ling
David Murgatroyd



code	subject name
Year 1	
<i>Session 1</i>	
IDES101	Workshop Technology
IDES102	Basic Design
IDES104	Visual Thinking
IDES105	Geometrical & Mechanical Drawing
IDES106	History of Art, Architecture & Design
MATH101	General Mathematics 1B
General Education Elective (28 hours)	
<i>Session 2</i>	
IDES103	Design Studio 1
IDES107	Principles of Ergonomics
IDES108	Engineering Design Mechanics
IDES212	Introduction to Computing
PHYS193	Physics 1 (Industrial Design)
MATH102	General Mathematics 1C
Year 2	
<i>Session 1</i>	
IDES209	Design Methodology
IDES210	Perspective & Rendering Techniques
IDES213	Introduction to Materials Science
IDES215	Product Studies Seminar
IDES219	Applied Ergonomics
ACCT900	Introduction to Accounting A
MATH281	Statistics SA
IDES216	Industrial Design Studio 2
<i>Session 2</i>	
IDES214	Mechanics of Solids for Industrial Design
IDES215	Product Studies Seminar
IDES216	Industrial Design Studio 2
IDES217	Computer Aided Design
IDES218	Materials & Manufacturing Processes for Industrial Design A
ACCT900	Introduction to Accounting B
MATH281	Statistics SA
General Education Elective (28 hours)	
Year 3	
<i>Session 1</i>	
IDES215	Product Studies Seminar
IDES322	Industrial Design Studio 3
IDES320	Materials & Manufacturing Processes for Industrial Design B
IDES321	Electrical Engineering for Industrial Design A
IDES323	Computer Graphics Applications
MARK201	Marketing Fundamentals
MARK203	Consumer Behaviour A
<i>Session 2</i>	
IDES215	Product Studies Seminar
IDES322	Industrial Design Studio 3
IDES325	Electrical Engineering for Industrial Design B
IDES326	Production Design & Technology for Industrial Design
IDES327	Form Theory
IDES328	Photography
IDES433	History of Consumer Products
IDES434	History of Industrial Design
MARK204	Consumer Behaviour B
MARK205	Marketing Research
General Education Elective (28 hours)	
Year 4	
<i>Session 1</i>	
IDES215	Product Studies Seminar
IDES429	Industrial Design Studio
IDES430	Project Research
IDES431	Graphic Design for Industrial Designers
IDES432	Environmental & Interior Design for Industrial Designers
GSBE000	Social Responsibility & Environmental Ethics
MARK307	Brand Management
<i>Session 2</i>	
IDES215	Product Studies Seminar
IDES435	Project
IDES436	Professional Practice
IDES437	Managing Product Innovation & Development
IDES438	Production Management for Industrial Design
MARK308	Strategic Marketing Management
General Education Elective (28 hours)	

IDES439 Industrial Experience

For further information please contact:

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The students and staff of the Department of Industrial Design at the University of New South Wales, are grateful for the financial and services support from the following companies. The involvement of industry is of great value to the course, as it not only offers students experience, but it also introduces the benefits of Industrial Design to the industry.

Platinum

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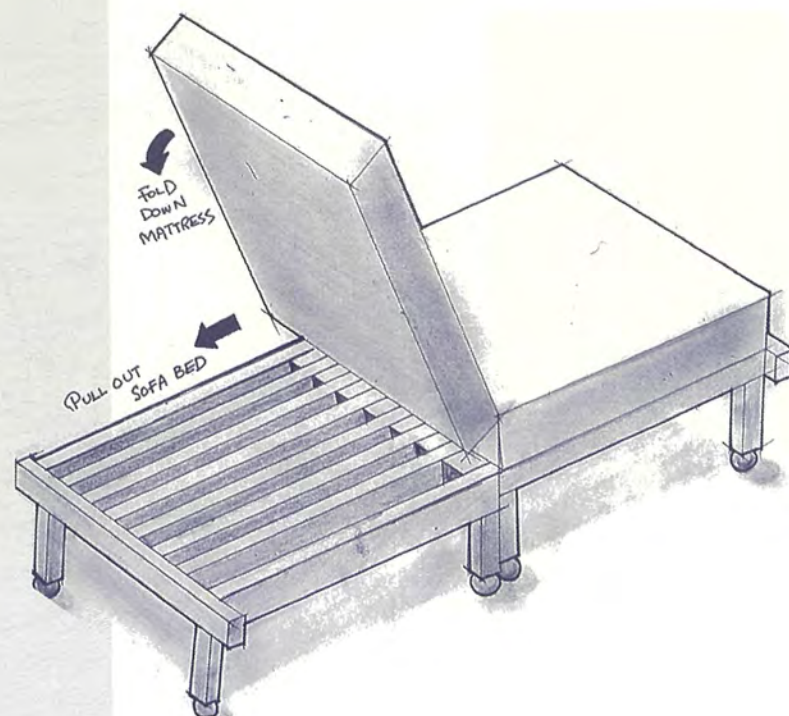
Box & Dice

Cadillac Plastics

Elastomer Brothers

Hopper & Sloth

Stamford Industries



s u b ÷ s p a c e

irene chan



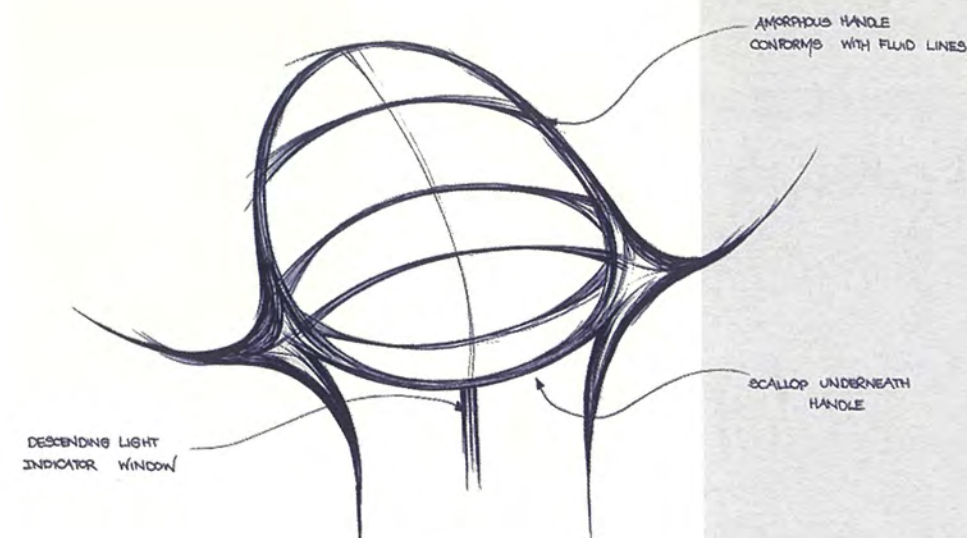
What? - To design a piece of furniture that utilises space effectively and efficiently, create comfort to the users and to promote a better living solution.

Who? - People who live in a small and / studio apartments, especially those in Asian countries, such as Hong Kong.

Why? - Living spaces are too small for the tenants and it compromises the enjoyment and comfort of living.

How? - Sub % Space is created. It is a room divider, a sofa, a bed, a storage unit and a table. It utilises space from a different perspective which provides a heightened quality of living.

Special Thanks: David Wang, Na Ung, Larry Pisani, Frank and Visy Board.



the supercooler: cryogenic food chiller/freezer

stephanie watson

Our search for the perfect balance between convenience, healthy eating, and environmental responsibility has welcomed the potential for 'The Supercooler' in the home of the future. The Supercooler incorporates the most energy efficient, cryogenic, refrigeration technology in the world.

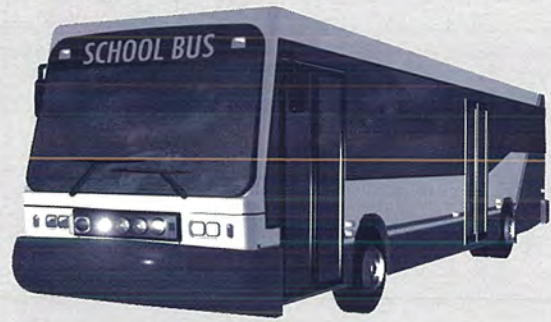
Cryogenics is the study of properties of matter at very low temperatures. This unique cooling technology inhibits the growth of food borne bacteria more effectively than existing refrigeration. It also reduces the growth of ice crystals that cause drip loss of flavour, colour, texture, and nutrients. It is clearly the healthiest and the quickest method of preserving and cooling food. The Supercooler also offers the flexibility of chilling, freezing, and deep-freezing a wide range of food and beverages.

Very Special thanks to Allan Ismay (Speed), Rick Perrior, and the team at Box & Dice, for their highly skilled model-making expertise.



Contact No. (02) 9550 0722



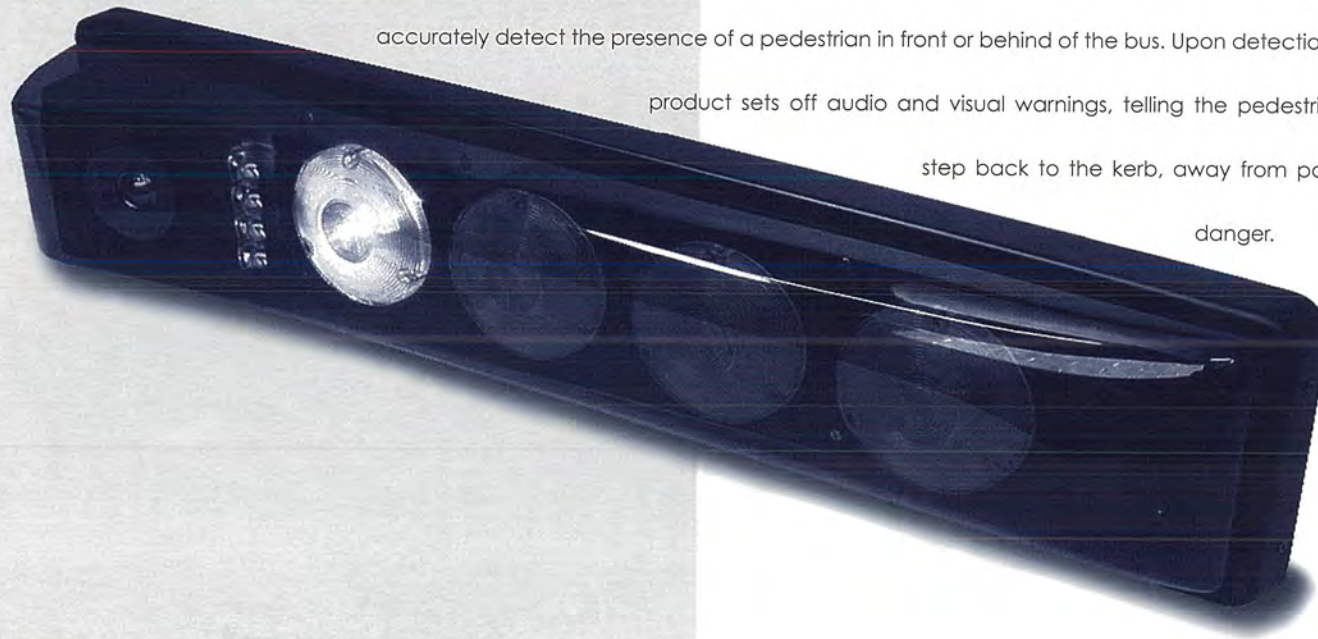


pedestrian warning system

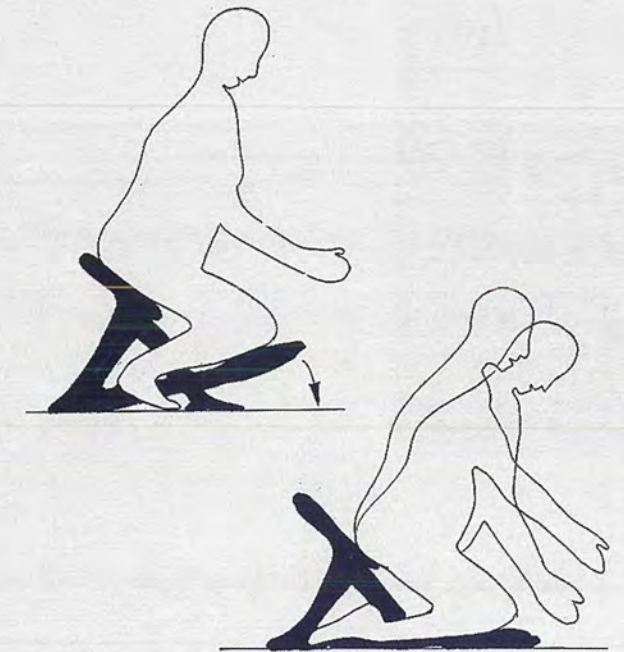
mark vozzo

The Pedestrian Warning System (PWS) is a new product development that addresses a serious bus safety problem. The product warns pedestrians not to cross the road when they put themselves in danger. Despite the fact that thousands of dollars are spent on road safety education programs, pedestrians are still being injured or killed after alighting a bus and attempting to cross the road.

The PWS is a bus retro-fit product that uses a new technology - 'Micropower Impulse Radar' (MIR) to accurately detect the presence of a pedestrian in front or behind of the bus. Upon detection, the product sets off audio and visual warnings, telling the pedestrian to step back to the kerb, away from possible danger.



P.O. Box 1613 Chatswood 2057 mob: 0411 359 322



angel

hilda cheng

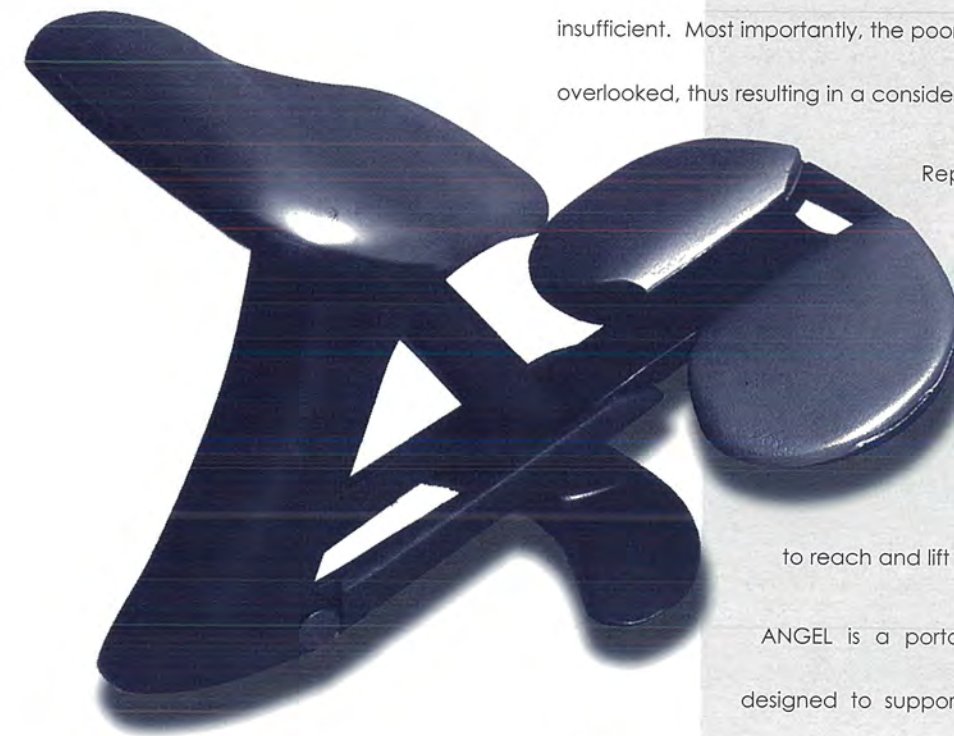
Despite the increasing demand for home nursing, support for this industry is insufficient. Most importantly, the poor working conditions of these nurses are often overlooked, thus resulting in a considerable number of back injuries.

Report from Sydney Home Nursing Service (SHNS) showed that 10% of back injuries were caused by leg handling. Since no seat of suitable height is available at the patient's home, nurses are required to bend down and adopt awkward postures

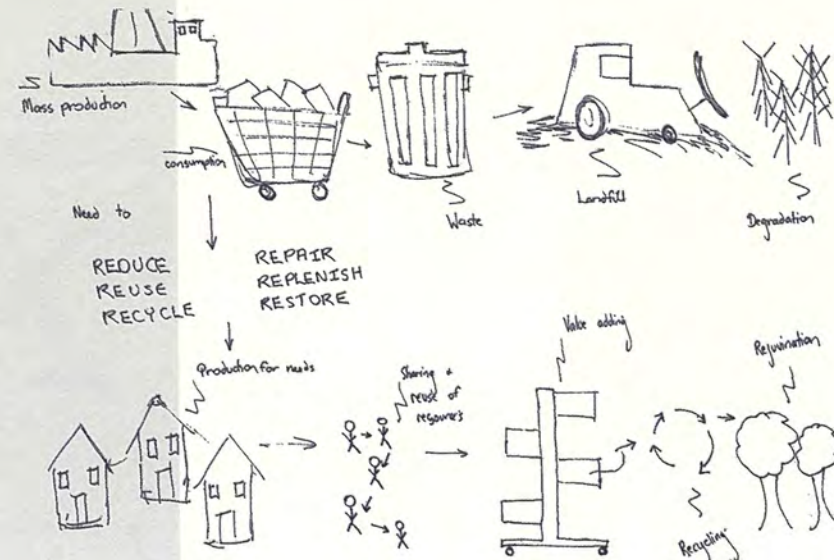
to reach and lift a patient's leg,

ANGEL is a portable stool, ergonomically designed to support the nurses during leg

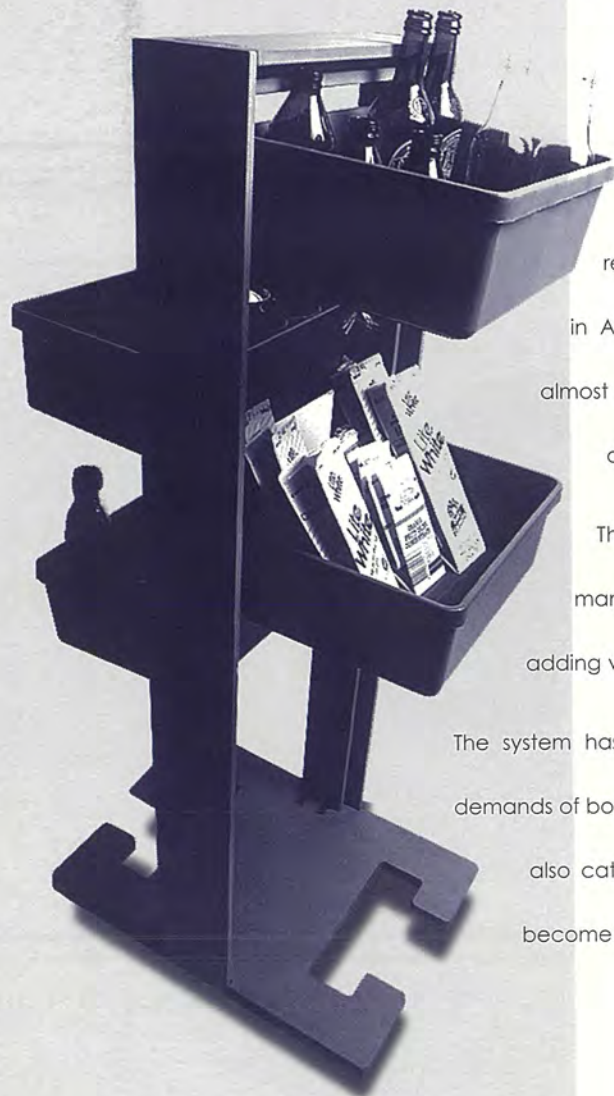
handling. The two postures adopted by the nurses, shown in the sketches, will minimise the strain on the lower back, thus minimising back injuries.



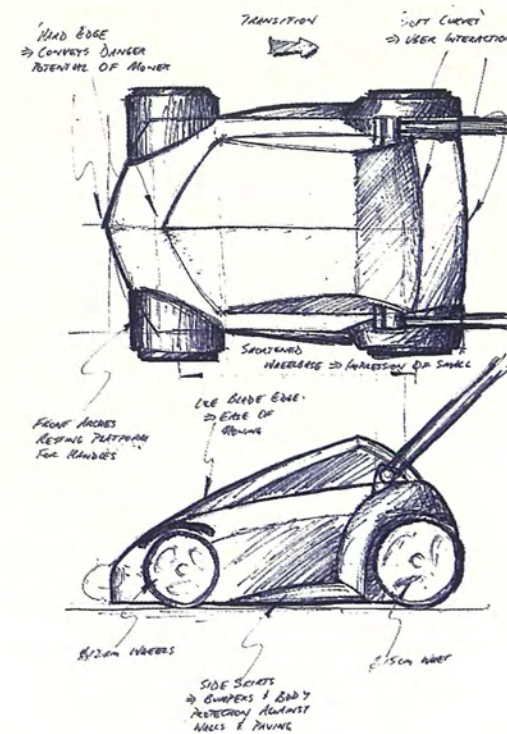
3 St. Pauls Rd North Balgowlah 2093 ph: 02 9948 1536 mob: 0412 197 442



phoebe chick



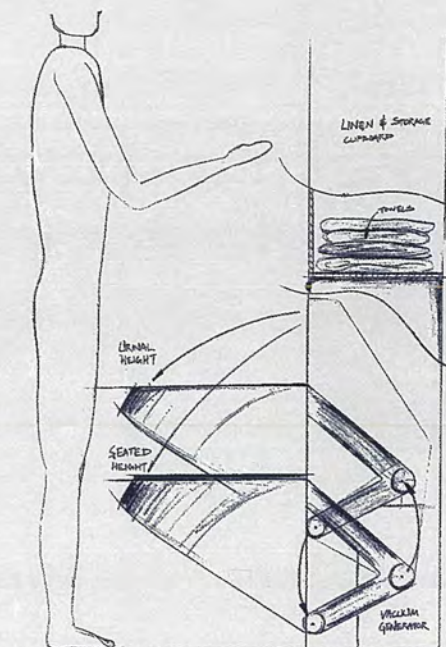
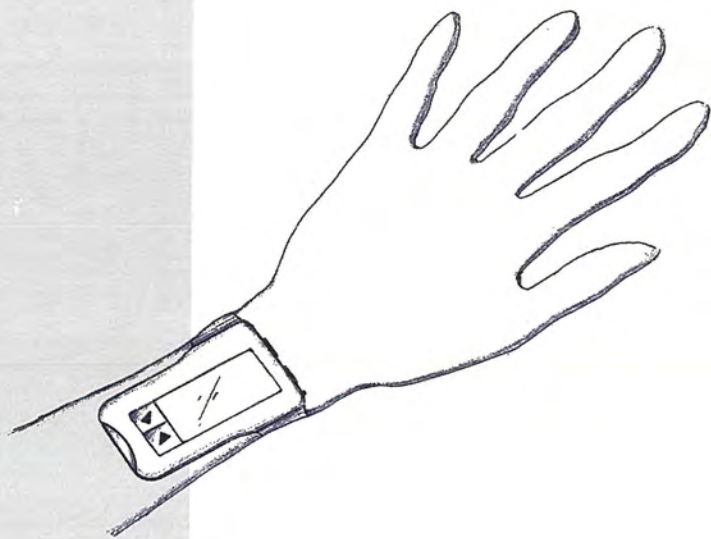
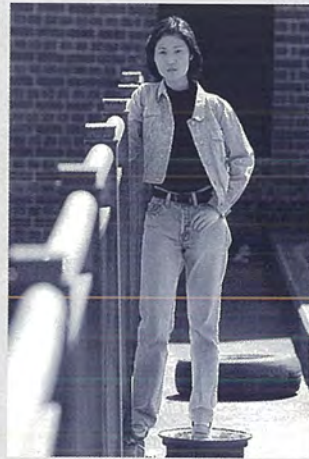
The system has in-built flexibility for evolution and to meet the differing demands of both quantity and make-up of the household waste stream. This also caters for changing public habits in waste disposal as people become better educated in recycling practices.



minimo - battery lawn-mower
diem tao

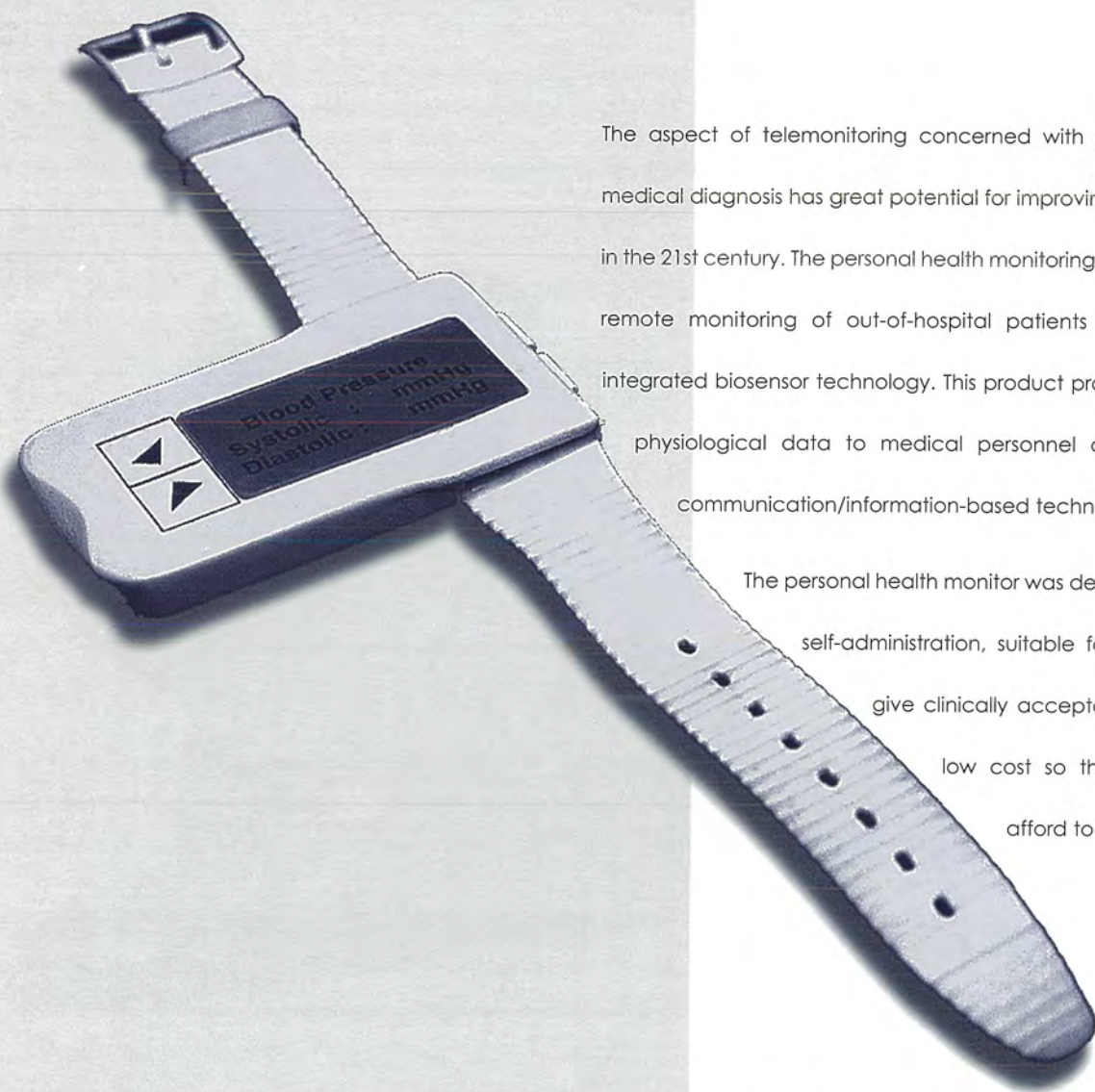
The market, essentially medium-density housing, requires noise and pollution be kept to a minimum, dictating the use of battery technology. Space considerations have resulted in a small footprint and lightweight mower as well as an accompanying recharging unit for easy, convenient storage. The cutting deck and blade assembly have been designed to finely shred and deposit the grass clippings back into the soil, returning vital nutrients back to the land as well as minimising landfill from the collection of bagged clippings.





personal health monitor

anne tamtana

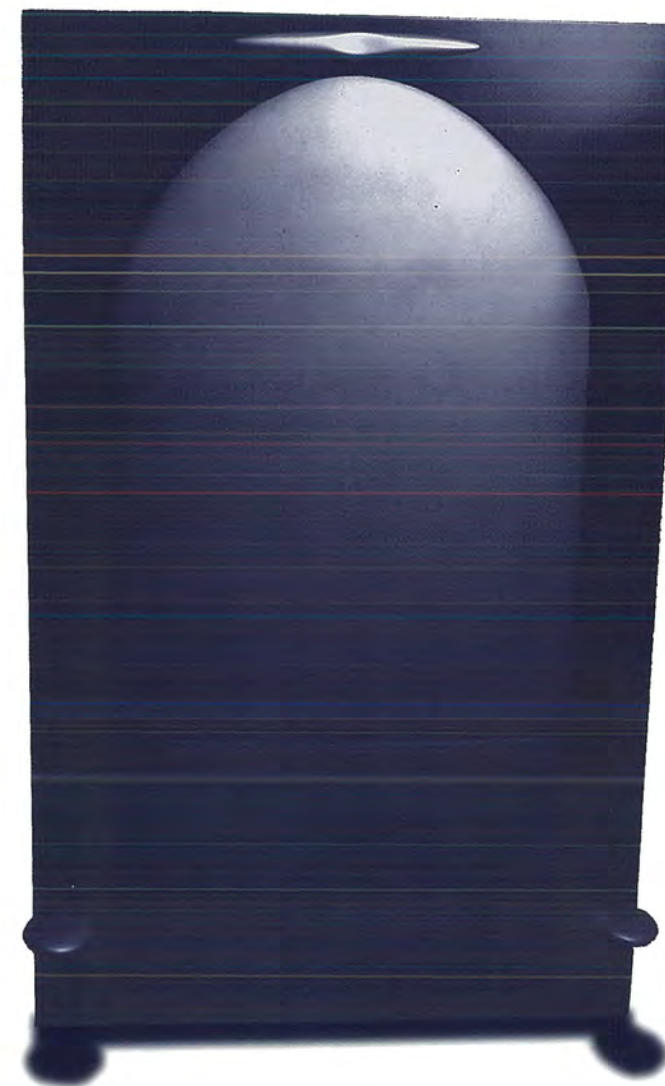


The aspect of telemonitoring concerned with information gathering and medical diagnosis has great potential for improving the practice of medicine in the 21st century. The personal health monitoring system provides continuous remote monitoring of out-of-hospital patients by using interactive and integrated biosensor technology. This product provides information on basic physiological data to medical personnel or systems through digital communication/information-based technology.

The personal health monitor was designed to be easy to use for self-administration, suitable for the home environment, give clinically acceptable results and sufficiently low cost so that 'at-risk' individuals can afford to have one in their homes.

oasis

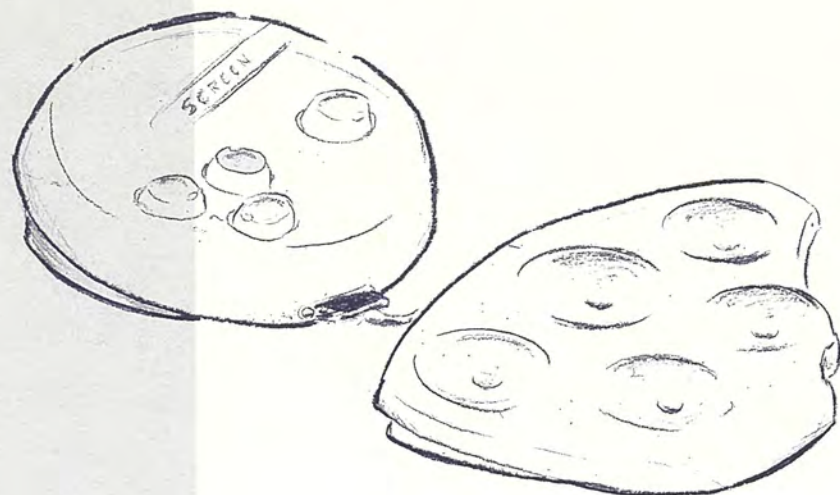
derek fung



This toilet design re-examines how we go about one of the true pleasures of life in the context of a foreseeable future. Issues in urban development that are emerging now include:

- Increasing demand for resource conservation
- A movement towards high-density inner-city living - especially in Asian countries
- Increasing burden on infrastructure

This design seeks to address these issues by dramatically reducing water consumption (1L/flush) through the use of vacuum technology, and provides a solution that complements space-saving bathroom design through the retractability of the pan. Also, the urinal function eliminates the main cause of toilet soiling - male urination.

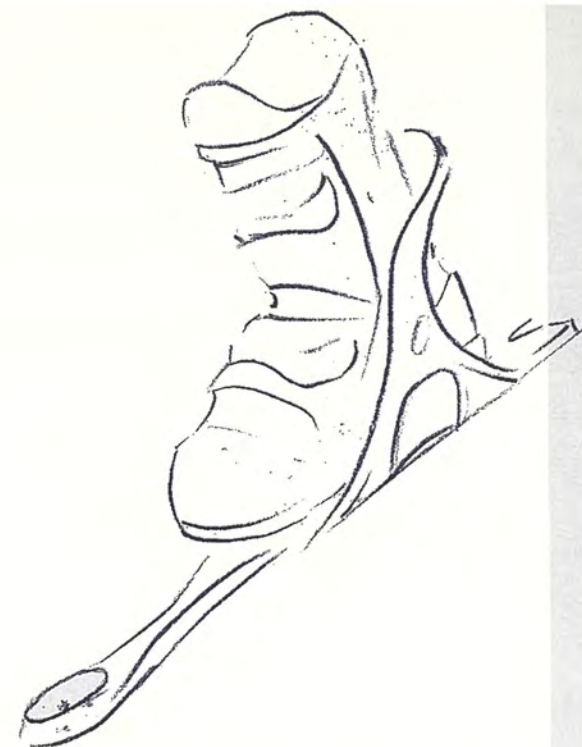


square wave music synthesiser

nizar habbal

The designed product is a synthesiser module for the music-making enthusiast at home. The unique user interface pushes sound creating and composing limits, without the machine being a conventional musical instrument.

The central idea behind the design is that the result of creative output is a reflection of the creative process in itself. In this case the product is music. So if the process of making music is altered to ease the creative flow from mind into matter, the music-makers themselves can then focus their energy on challenging current standards and styles, to produce something unique and insightful.



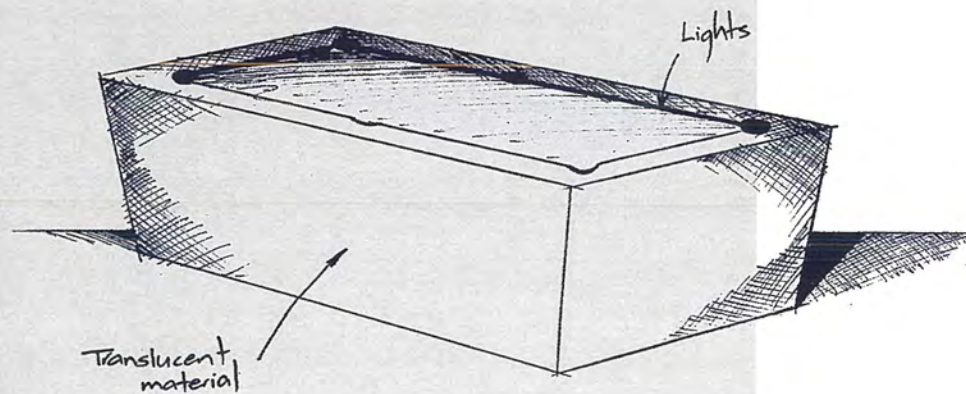
aurora - ski boot and binding system

henri spaile

This project involved the development of a new ski boot and binding system that overcame significant problems of existing systems, and provided a fresh, innovative, plausible design solution.

The Aurora system allows the ski boot to be lightweight and flexible when not connected to the ski, yet provides support and performance when attached to the ski. The binding or 'connection' system between the boot and ski utilises load cells and a microprocessor to continually monitor forces between the user and the ski and releasing the boot in potential injury situations. Overall this product provides significantly improved comfort, performance, safety and useability, in a resolved, marketable design.





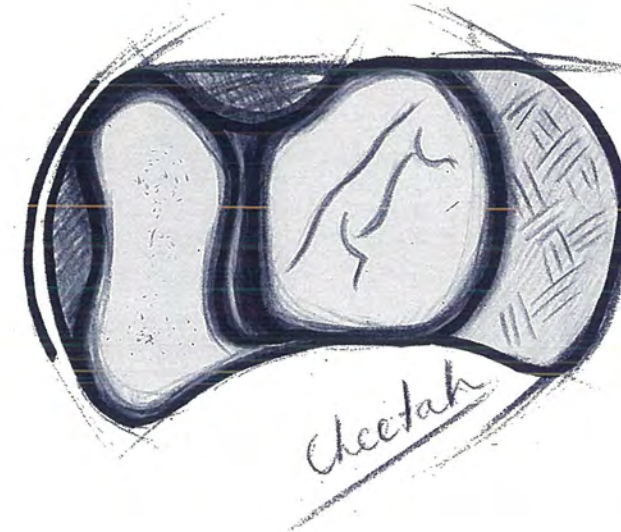
commercial billiard table

bobby singh

This research project attempts to take the traditional game of billiards into the twenty-first century. Since its origins, the game of billiards has gradually been refined to become the game that we know today. At the same time there have been gradual advancements of the billiard equipment as well. Today though, an opportunity exists to take these advancements one step further. This project has explored the ways in which a billiard table can be designed to maximise useability with the end users, and integration with it's environment.



222 Chuter Ave Sans Souci NSW 2219 ph: 02 95294122 mob: 041 921 1565



cheetah - the push up assist

tina kinnell

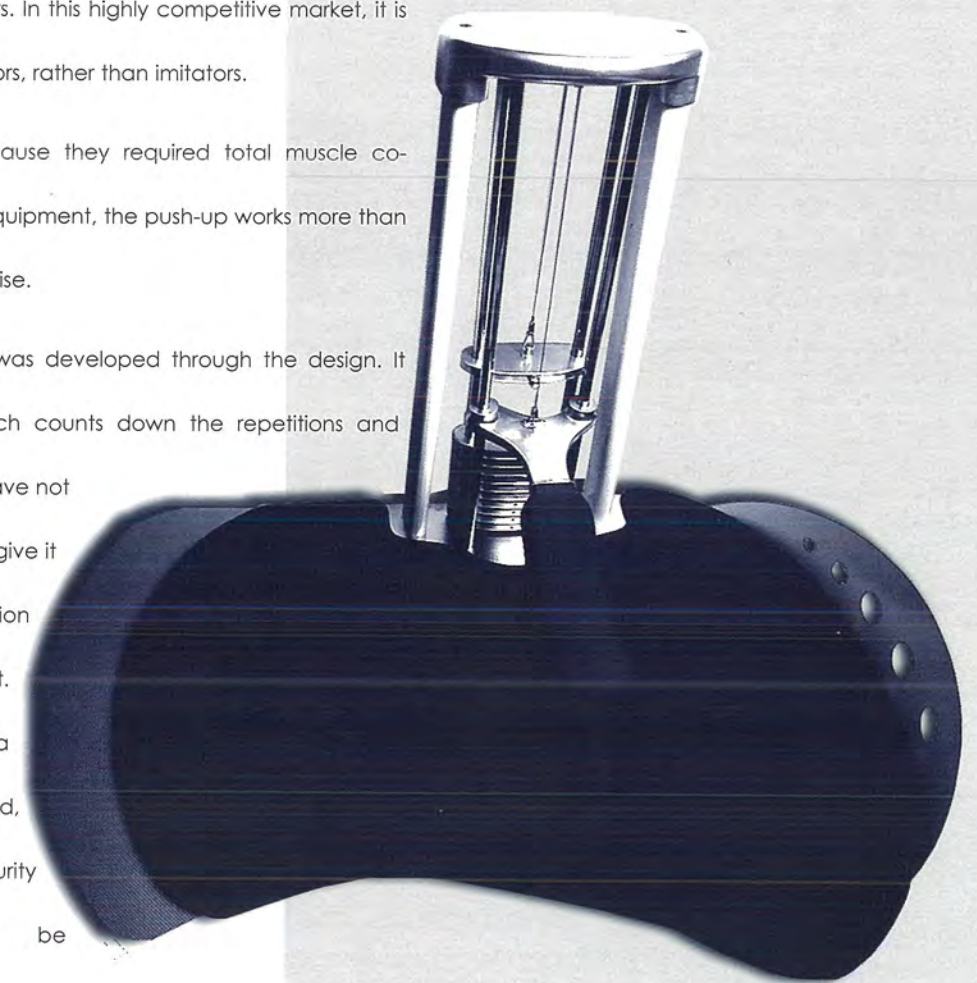
Cheetah, The Push-Up Assist, was developed to lift the profile of Australian gymnasium equipment manufacturers. In this highly competitive market, it is time for Australia to become innovators, rather than imitators.

Push-ups are a great exercise because they required total muscle co-ordination and unlike most weights equipment, the push-up works more than one muscle group with the one exercise.

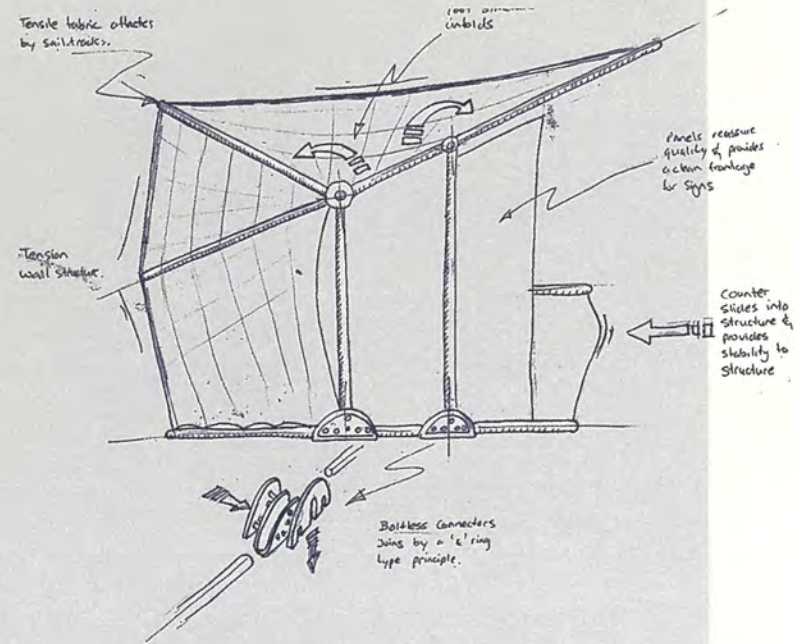
A new feel for weights equipment was developed through the design. It includes a computer interface which counts down the repetitions and communicates with the user if they have not reached their target. The aim was to give it personality and create a connection between the user and the equipment. In the future, it is envisaged that a smart card system will be integrated, where exercise programs and security



information will be recorded.



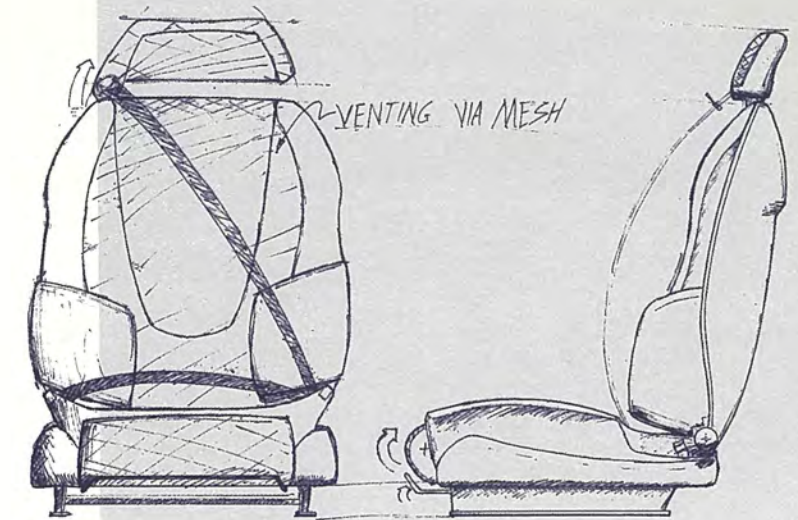
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27 Blaxland St Parkes 2870 ph: 069 621 320



festival food stall

kent kwan

The growing popularity of weekend markets in Sydney has prompted the need for a new temporary stall design. Currently stall operators have been forced to use inadequate and ad-hoc means of sheltering their wares. Food operators, particularly those who cook on site, have specific needs in order to meet hygiene requirements. The Festival Food Stall features an integrated cooking system, a portable hot water supply, floor covering for unsealed surfaces, under counter storage space, quick release locks to minimise set-up time and a compact means of transportation. The tensioned roof and wall design resist undue flapping caused by the wind.



air vented auto seat

damian muzi

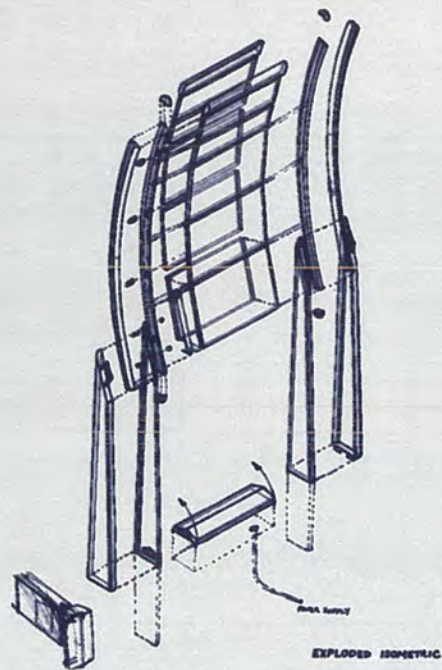
Most people should be familiar with the discomfort inherent with hot weather driving, which can be partly attributed to the accumulation of perspiration on the back of the occupant.

This design set out to explore the best and simplest methods of minimising this discomfort by maximising natural local ventilation of the occupant's back area via use of an air permeable back support.

Currently, many cars still make do without lifesaving safety restraint systems, often due to their expense. This seat also explores alternate, cost effective ways of achieving high levels of occupant restraint for crash situations.

With acknowledges to Nick Cartledge and Hunter Gall, for their expertise and effort put into this project.

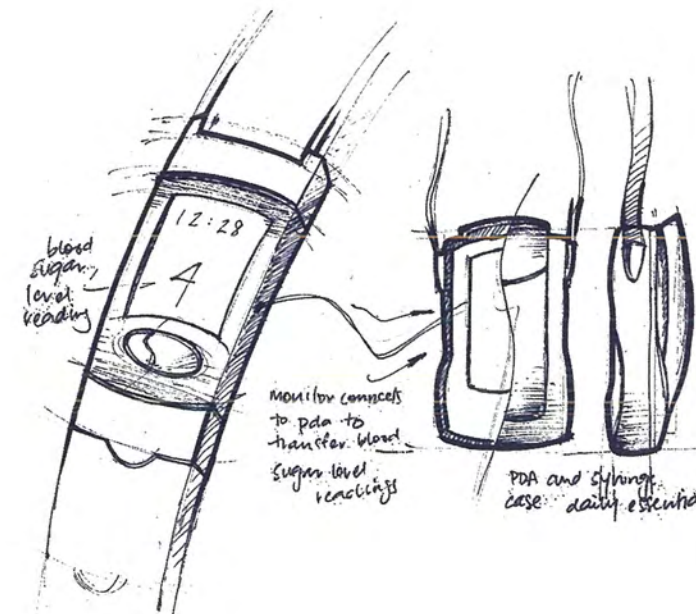
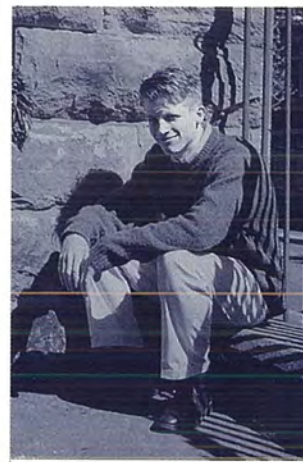




dynamic bus stop display

david murgatroyd

The Dynamic Bus Stop Display will markedly improve both the quality and quantity of information provided to bus users waiting at bus stops. Combined with a GPS based bus location system, each bus stop will be able to display the predicted arrival time of buses on each route, and even how long the trip will take to a particular destination. Static information such as timetables, maps, and pricing details are presented logically and clearly, so that bus users may take full advantage. Overall, the Dynamic Bus Stop Display instils confidence in bus users that they are using a quality service.



diabetes management system

mihe lee

'Diabetes never stopped me from doing anything, but it's an infringement on one's life'.

Diabetes is accompanied by a lifetime commitment to treatment in order to maintain health and to lead a normal life. Such commitment involves tight control of blood sugar levels which effects every part of one's life.

The system consists of a non-invasive blood glucose monitoring system (disguised as a watch) which utilises infrared technology, eliminating the need to prick the finger for blood testing. This combined with a dietary manager (the Apple MessagePad 130)

results in a diabetes manager capable of

building a personal database and understanding the diabetic's body. A

daily carry case houses all essential equipment and returns to a

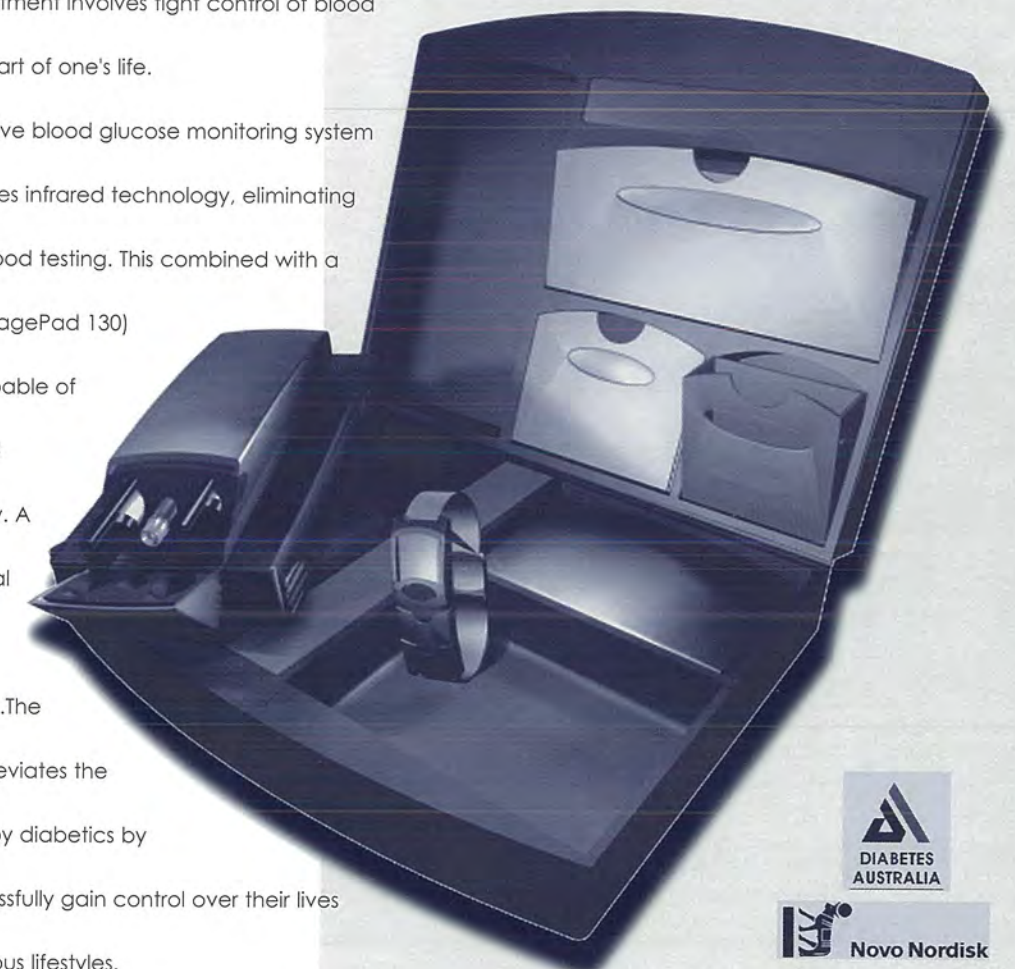
base unit, storing ongoing supplies. The

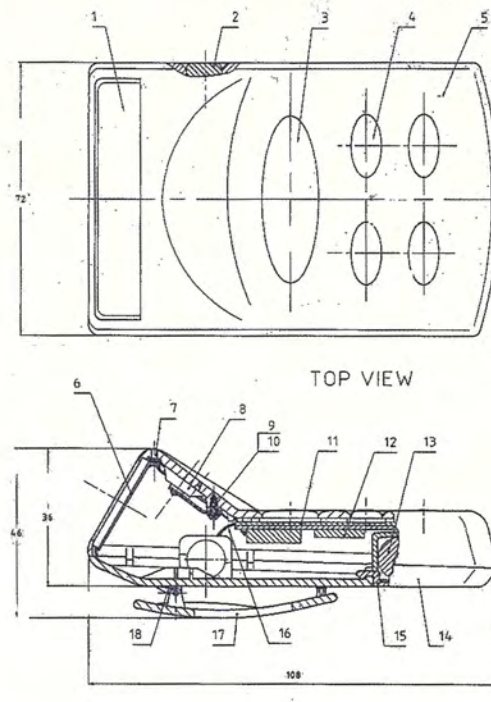
Diabetes Management System alleviates the

continual concern and stress felt by diabetics by

allowing them to easily and successfully gain control over their lives

and by providing flexibility for various lifestyles.



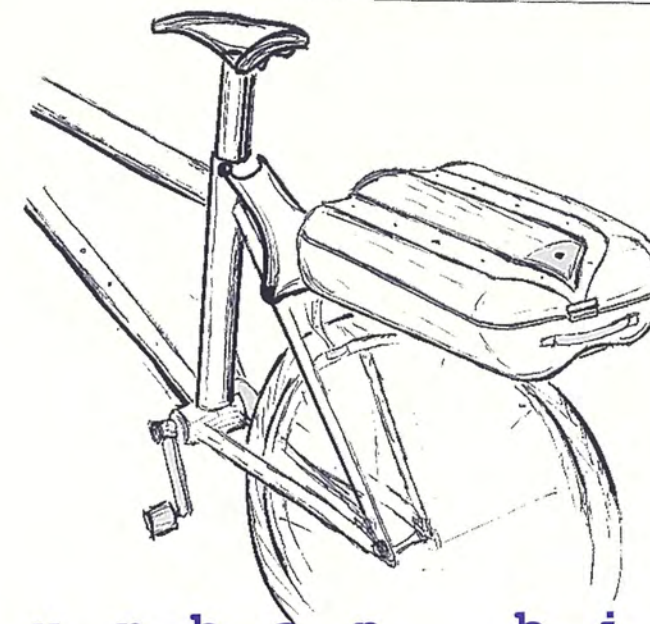
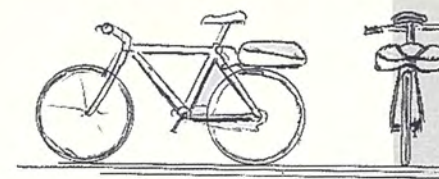


child temperature heart rate monitor

edwin li

Research in medicine and marketing revealed a need for a product that can inform parents when their child is having a fever, an asthma attack, or serious heart problems. The Child Temperature Heart Rate Monitor is a multi-functional product that can satisfy this need. The resulting design aims to be a flexible product to target the international market.

The monitoring system has two main components: 1. Measuring unit hidden in the vest detects the child's temperature and heart rate. 2. Processing unit used by the parents enables them to observe the child and hear the alarm from another room in the house.



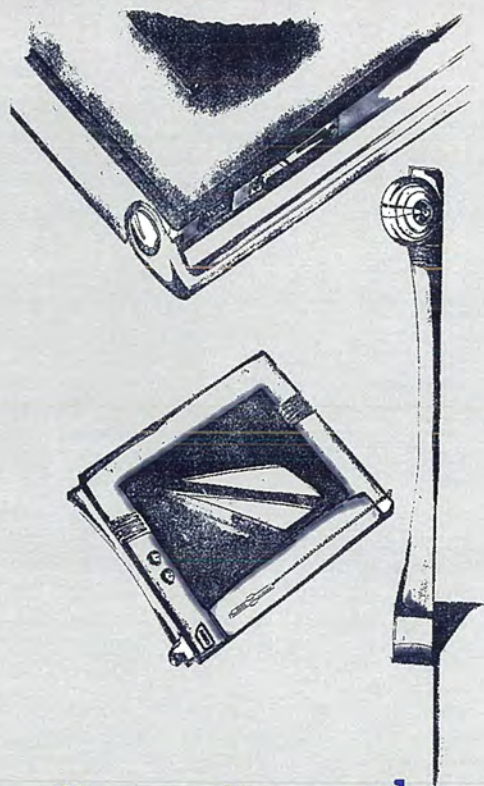
urban bicycle pod

sam m^cguinness

The bicycle is an environmentally sustainable form of transport that is one part of the urban transport solutions. This project aims to assist and promote urban cycle commuting as a legitimate form of transportation through a design of a load carrying device that is safe, secure, effective and compatible to an urban work environment.

This product aims to enable a cyclist to utilise the bicycle to the fullest potential. The size, shape, ease of accessibility and appearance are designed to maximise the performance of this form of transport so that it is the preferable means of commuting.



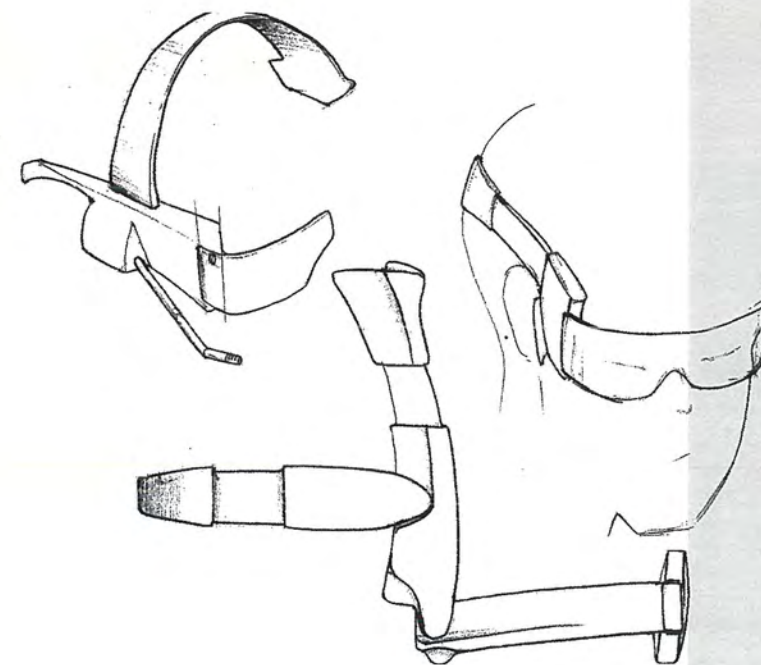
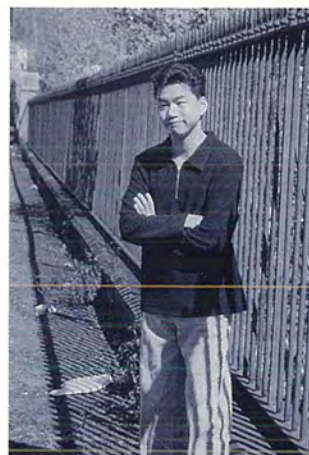


med - link wilson ma

The exchange of information plays a central role in the world of health care. Many pieces of information have to come together at the right place and time for a correct diagnosis and treatment to be carried out swiftly. Therefore, this design project is an exploration of the ways in which video-conferencing could be used in a remote electronic clinical consultation environment to improve efficiency and quality of patient care. With the new system, "Med-Link", a doctor can match a patient's information with data in the repository, review treatment history and success, achieve most up-to-date medical information, and then determine the best treatment.



ph: 02 9876-4598



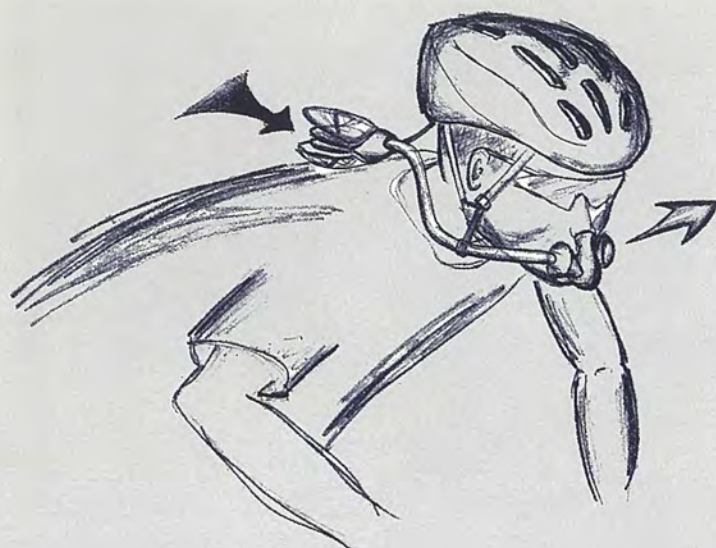
the mobile advanced communication system (m a c s)

brian ling

The Mobile Advanced Communication System (MACS), is the communications product of the future. Boasting a head mounted miniaturised display, bone vibration headset, satellite up-link and global tracking system, this information product signals the integration of I.T. in the lives of individuals. Designed for rugged use, this system excels when used in extreme, hostile conditions. Aiming for use in the emergency services, this product provides secure and reliable communications with the user's safety in mind.



5/40 Meeks St Kingsford NSW 2032 ph: 02 93984558 mob: 0411-730878
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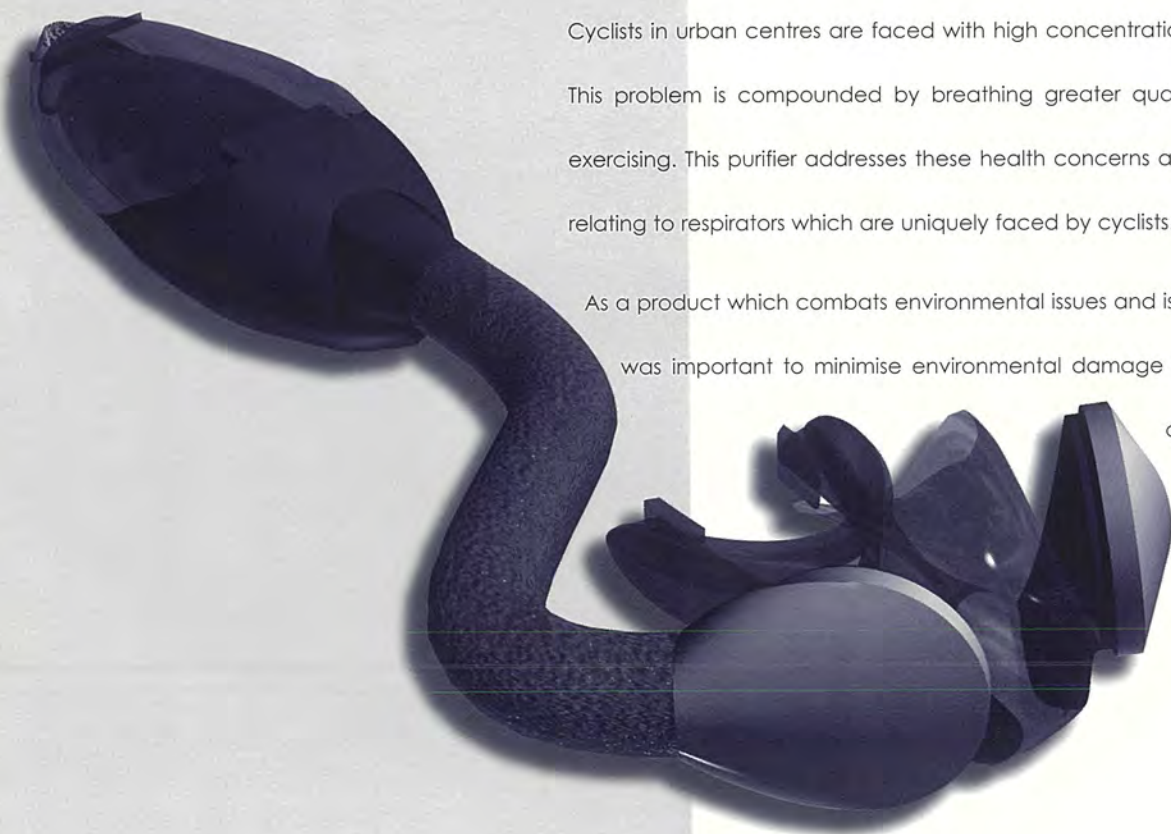


zephyr - cyclist's air purifier

sean loughman

Cyclists in urban centres are faced with high concentrations of air pollution. This problem is compounded by breathing greater quantities of air while exercising. This purifier addresses these health concerns and other problems relating to respirators which are uniquely faced by cyclists.

As a product which combats environmental issues and is used by cyclists, it was important to minimise environmental damage in the product life cycle. Design strategies were implemented to reduce this.



simplex - patient support system

robert d ma

The hospital environment serves little to ease the air of pain and suffering, causing discomfort for even those who enter. The bed being one of the most visible of all hospital equipment, should therefore be less industrial and more personable.

Most of today's bed designs however, fail to serve the needs of patients in the areas of comfort and safety. Little consideration for staff manual handling nor applied effort is made. And manufacturers are less than catered for in efficiency of material usage and labour requirement.

The aim of the project then, was to inject a fresh new approach to a long established problem by addressing the afore-mentioned.

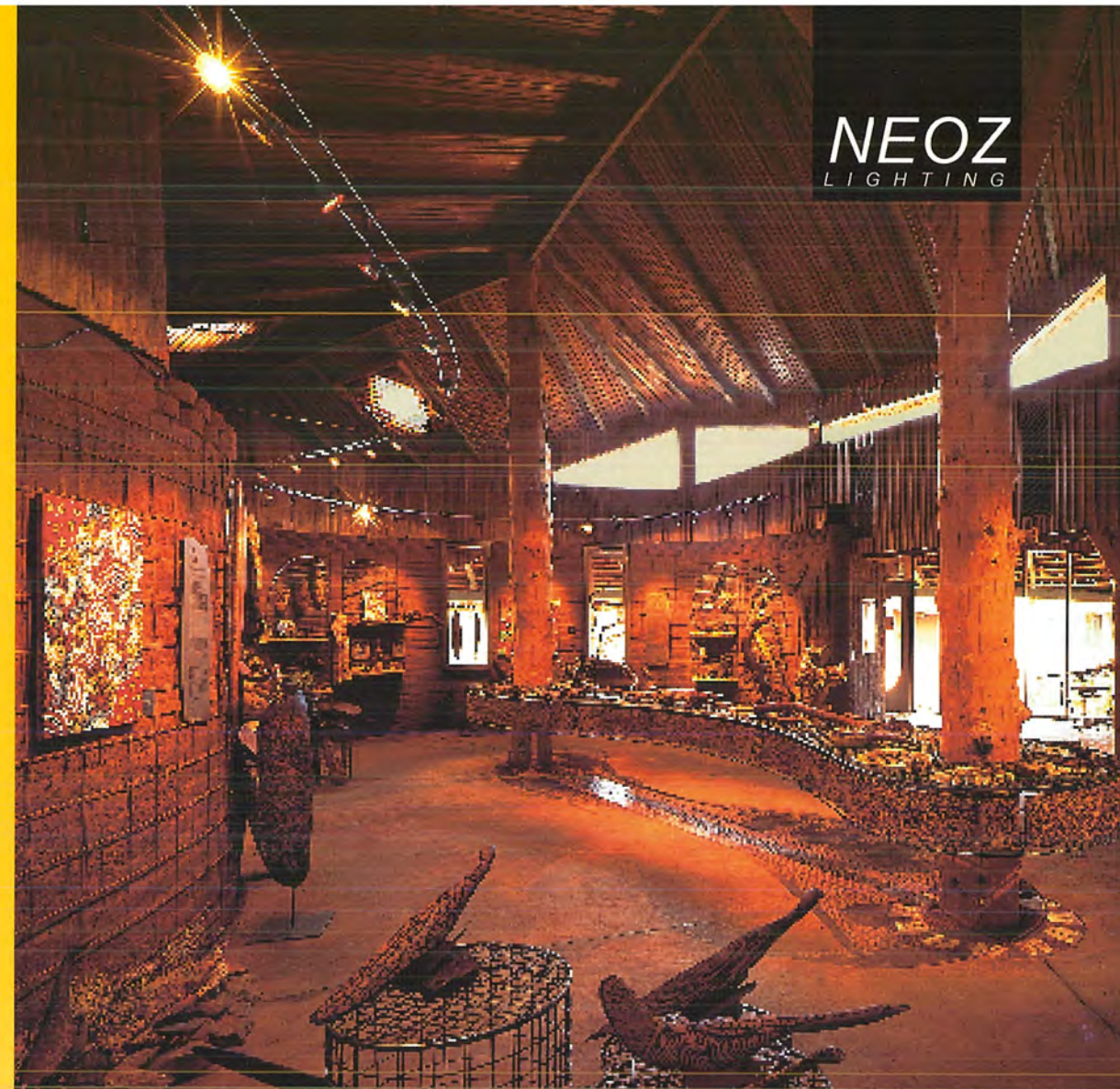
I would like to thank Oz Models Pty. Ltd. for their continued, professional support, and Murphy™ Furniture for the privileged opportunity.



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OZ
models

congratulations to the
1997 graduating year



*Uluru Kata - Tjuta Cultural Centre
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of Australia and New Zealand.
Lighting Designer - Sue Spicer

LIGHT RAIL is a flexible low voltage system designed to accommodate a wide range of lighting applications. A range of luminaires using halogen lamps provide fully adjustable directional or ambient lighting. The system is totally flexible and can be formed to any shape to achieve optimum lighting and overall visual effect. Designed by Peter Ellis and Michael Hort. Made in Australia. Patented in Australia and USA.

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Minnesota Children's Museum - USA
Argyle Department Store - The Rocks Sydney
McDonalds - Circular Quay Sydney
Saga Interiors - Jakarta

LIGHT RAIL

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HPM INDUSTRIAL SWITCHGEAR MEETING TOMORROW'S STANDARDS TODAY

A RANGE WITH MANY FEATURES



HPM Industries, a market leader in innovation for over 70 years, has developed a new range of industrial switchgear which is set to become the future benchmark of efficiency and safety. This range not only suits Australian and New Zealand conditions but has set new standards of its own, meeting the demand of today's industry. Key features include durability, impact and chemical resistance (including acids and solvents), UV stability and space-saving modular design.

One of the most critical demands is absolute safety in use. This range meets all the arduous duties of motor applications in a wide range of ratings demanded by industry.

IP66 or IP44 – a choice

One of the clear messages that HPM received from industry was that they didn't always need the relatively expensive sealing properties of IP66. There are situations where IP44 could provide adequate protection. HPM's range provides a choice of IP44 or IP66 ensuring switchgear for all conditions at an economical price.

Polymer for superior strength

In the material selection process, the use of polycarbonate for combinations, flaps, plugs and sockets was rejected due to its deterioration caused by oils and solvents. A new Polymer (PBTA) was chosen instead for its superb strength, resistance to chemicals, UV stability and environmentally friendly plastic.

The safety of interlocking

All 3 phase 415V combinations have strong interlock systems preventing plugs from being withdrawn unless switches are turned off.

Modular assembly

The range of accessories enables the design of complete distribution systems, guaranteeing the necessary degree of protection (IP44 or IP66). This can be easily achieved without the need for multi-boxes, bridges or the use of silicone.

"Set to become the future benchmark of efficiency and safety"

HPM PRODUCT RANGE



Chemical resistance



Impact resistance



UV stability



Environmentally friendly

For sales and information call HPM toll free
in your capital city 1 800 80 7000



Exhibition
Hire Service

Displaying Imagination



Modular Stands

- Modular stands with the advantage of custom design.
- Standard panel sizes
- Range of colours and finishes to differentiate your stand.



Custom Stands

- Innovative, creative, cost effective designs.
- In-house design team will transform your ideas into reality.
- State of the art signage & graphics, design & production.
- Sensational lighting options.
- Our experienced staff will help you utilise your space most effectively.
- Complimentary concept design.
- Scale CAD drawings to help you to visualise before your stand is built.
- Detailed project management to ensure delivery on time & within budget.



computer and the computers for continuing scratching disk run the entire
caffeine guarana family for their support on those long nights Mum for letting me borrow
her car For auto bog to fill up those cracks AutoVision for giving us a license and for
providing the renderings Tulika for being the godsend of the entire industrial design
course The "cutting plastic" call that saves our ears from screeching Graham in the Quad
store for providing our art supplies and chocolate The red workshop frisbee for stress
management Hackysack for stretching those muscles Auto-One for every paint type
imaginable Dong Dong noodles for a tasty meal The CAD Lab as alternative
accommodation Pirate software that maintains the student budget The great diversity
within the course Lobar's immaculate dress sense and haircuts Workshop chemicals that
have done unknown damage to our health Extended lunch breaks The ten commandments
of design by Dieter Rams! Form follows function 99 book limit from the library Hand
me down assignments Marketing to show how good design is Brothers and Sisters in
architecture 'The Coops', you can polish s*#t Tum's Thai for keeping our diets healthy
yet tasty and Bill's Thai Basser stairs for keeping well travelled industrial design students
fit The college door code 17 inch monitors 24 hour swipe card access Jethro
Tull & Enya workshop soundtrack Kuestionnaires that we have done The sample space
being your friends and family Trim, fillet and snaps commands FoodPlus for the 24
hour necessities The quadrangle 'executive' toilets Free plots for a long time - netprint
catalogue.prn For having lecturers who look like Newman Incongruous relationships
For parents who can build models Thanks to Snuffleophogeous the dust monster Preying
Mantis Castle Mountain The colour wheel Art sHmistory Maple, statistics and
regression tables The vein-cuff debacle Builders for providing faculty excitement
Wendy for cooking dinner Sparky Melting, smelling and blowing up capacitors with 007

**THE GRADUATING INDUSTRIAL DESIGN STUDENTS WOULD
ESPECIALLY LIKE TO THANK THEIR FAMILY AND FRIENDS
WHO HAVE SUPPORTED THEM DURING THE COURSE.**

Starck Department Hour Gen Education for showing how general ides is Trouble
The library lawn clock for showing design in practice Dawn Fraser and chair design testing
Industrial experience for filling in what would have otherwise been a 'boring' holiday
Suuper' lecturers Lab 'donations' Learning mechanics from a coach driver Sense of
touch and smell for costing products Character building sleep deprivation Attention
Deficit Disorder spelchecker Eddy Avenue carnage Lawn and grass on campus
Blue foam fumes and cutters Endangered files and rasps Examinations in the galaxy and
panorama room Ulnar deviation CG04 The invigilators exam staff Lathe dig ins
Mosquitoes in the safety science room The fallen comrades The Giggler Scanning
noises Citric Metamorphic By the book photography Mitsubishi signatures The
style gypsy Circle and ellipse templates Les's beverages and sausage rolls Historical
timeplans Lockers Mothballed Rotring pencil sets Polymethylmethacrylate (PMMA)
Dentist chairs, guitars, salvaging and order of operations The disk hog Not being able
to look at the backs of cars without commenting on the trailer connectors Desert Chicky
Chupa Chups Pheasant (see kinky bath scene) and Kalpakjian The 4 Ps Ernie Bike
Anarchy yum cha no show Studio phone The workshop 'Tardis' The trapdoor
occupation Doubling the course intake and the subsequent intimacy Enrollment No
limits The prom couple Danger Mouse and Penfold Under the thumb Gangster Phillip
Ben and Greg's studio presentation Brother Rok Trogolodytes Overhead projector
incompetence The Leyland P76 - excellence in design - Bernini The Red Dot Imperial
paper sizes Course segregation BECU screen savers Ever-present construction on
campus Glue and dreadlocks The black hole innny dimlfac Handball that kept us
sane Friendly but firm security (The Gatekeepers) Peter the Photoshopper Budget
blow outs The uprooted upside down tree (RIP) Seagulls in plane engines, unseen fault
Netstal 2000 - In Search of Excellence Marketing mistress The G-Man Boycotts and pack
up noises Tim Bailey and the Swans BBQ Food fight on the library lawn E-mails from
John Niland Week 20 Concepts last DIY Marketing Sleep deprived auto crashes
The catalogue that nearly wasn't Old Man Yoda The Garden Gnome The curse



herman miller

congratulations graduands



symmetry plastics

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Symmetry Plastics designs and manufactures products that
require thinking "outside the square". With a wealth of experience
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furniture polish, ironing aids, hair sprays,
and other products
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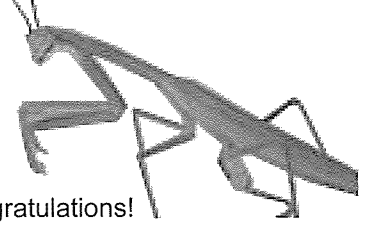
*Symmetry Plastics congratulates all the graduands and wishes them
all the success for the future*

**STAMFORD
INDUSTRIES**
PTY LTD

SI

The ant busts his butt in the withering heat all summer long, building his house and laying up supplies for the winter. The grasshopper thinks he's a fool and laughs and dances and plays the summer away. Come winter the ant is warm and well fed. The grasshopper has no food or shelter so he dies out in the cold.

Hopper & Sloth
Marketing Consultants



The hard work pays off, congratulations!

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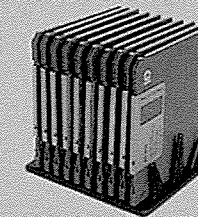
BHP



*"If you can imagine it,
we can create it."*

Corner William & Short Streets, Brookvale NSW 2100. Ph: 9909 1899. Fax: 9908 2072

DiSc hog™



The Elastomer Brothers wish to congratulate the graduating designers of 1997.

Best of luck for the future!

SINCE 1996

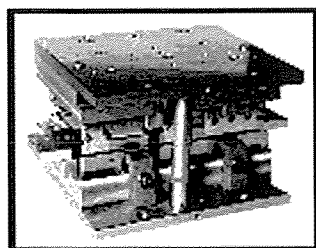
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PO Box 291, Rozelle, NSW 2039

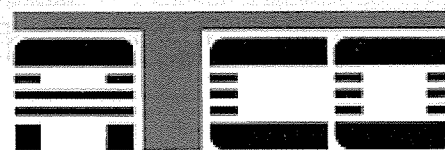
UTILUX
people with imagination

Members of the Utilux Team:

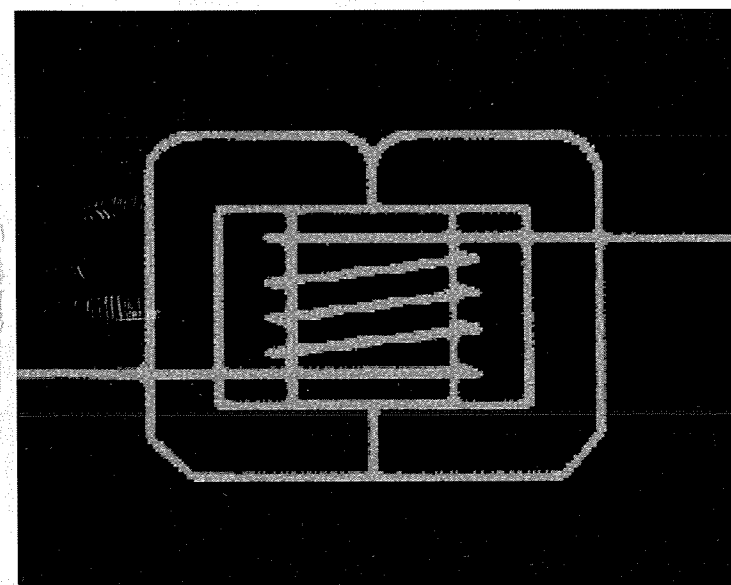
Group Engineering



- Product design
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- Design & manufacture of high speed metal dies
- NATA registered laboratory

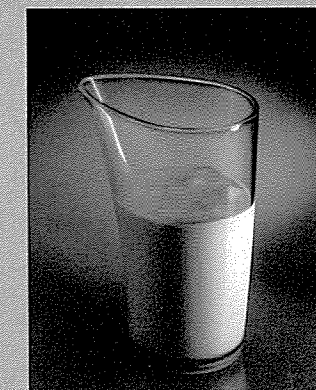


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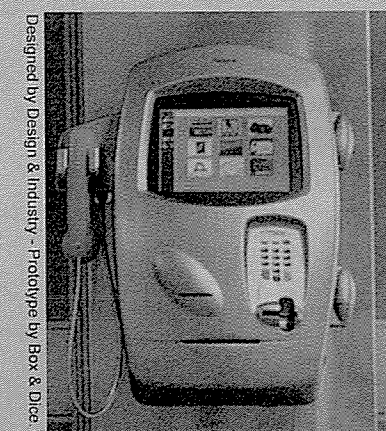
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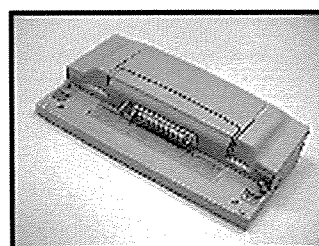
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