



**Footscray Park Campus**  
Cr Ballarat & Geelong Roads  
Footscray

Ian H. Fairweather  
School of Sport & Exercise Science  
Victoria University  
MCMC 14428 MELBOURNE  
VICTORIA 8001 AUSTRALIA

Phone: +61 (3) 9688 5063  
Fax : +61 (3) 9688 4891  
[ian.fairweather@vu.edu.au](mailto:ian.fairweather@vu.edu.au)

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To whom it may concern.

The School of Sport & Exercise at Victoria University is a high profile research and teaching institution. The close connection to the Australian Institute of Sport, the Victorian Institute of Sport and several leading local hospitals make it a hub of activity for not only sports related research, but also health and medical investigations. The School possess extensive laboratory suites for exercise physiology, bio-chemistry, biomechanics, motor learning, motor control, computing and sports psychology. The laboratories are very well equipped with diverse and modern instrumentation ranging from biomedical devices, bio-mechanical imaging equipment and electro-mechanical devices.

Mr Danny Rutar was employed by the university from 20<sup>th</sup> July, 1991 to 15<sup>th</sup> September 1996 as the senior technical officer (electronics) in the Sports Engineering & Technology Unit (SETU) of the School. The unit consisted of a Scientific Officer, Senior Technical Officer, Technical Officer and several Junior Technical Officers (trainees). In that capacity Danny was responsible for many roles including supervision, maintenance, management, design/construction and instruction.

**Supervision:**

The Sports Engineering and Technology Unit employed a number of technology specialists and work placement students who were seeking on-the-job training. Danny supervised the Technical Officer and work placement students, often 2 or 3 at a time. He was responsible for issuing/prioritising work and overseeing progress on the related projects.

**Maintenance:**

Electronic fault finding, at both component replacement and board replacement levels.  
Calibration and traceable calibration certification and all related equipment reliability and accuracy documentation.

**Funds Management:**

Responsible for sourcing suppliers and selecting cost effective equipment most appropriate to the needs and the within budget of the academic discipline concerned.  
Ordered component and workshop instrumentation stocks  
Managed petty cash floats

**Design/Construction:**

Was responsible for custom design of electronic instruments, combining analogue, digital and microprocessor technologies. This included complex firmware development for microprocessor based projects. Some examples of which included:

ECG arrhythmia simulator  
Wireless sprint timing system  
Multi-person ECG telemetry device  
Hi-powered bicycle ergometer calibration rig  
Custom force platform (mechanical hardware design and strain gauge electronics)  
A multitude of minor electronic devices used in teaching and graduate student research projects

**Instruction:**

Responsible for instructing research staff, teaching staff and post graduate students in the proper operation of instrumentation and equipment. Provided tutoring to the work placement students in programming, board design and general methods of instrumentation.

Danny at all times performed his duties in a friendly and professional manner and was well regarded and respected by all staff and students. He enthusiastically involved himself in projects and was often the instigator of ideas for novel instrumentation and research projects. He related well with students and athletes and was also an active athlete and coach. Danny was often consulted by academic staff in relation to instrumentation in connection to their research projects and demonstrated a very wide and high level of scientific knowledge that was keenly sort after.

I have great pleasure in recommending him to any scientific or instrumentation position and feel his wealth of background knowledge and understanding of physical principles will stand him in very good stead. He is an honourable person with great personal integrity and morals and will be an asset to any organisation.

I would be very pleased to enter into further dialog regarding more specific information if required.



Ian H. Fairweather  
Senior Scientific Officer