Alan Harvey Following graduation from RMIT, I worked for 10 years in industry at Amcor, BP Australia and BP UK in control and electronic design. Also worked as switching PS designer at A&R Soanar and Automatic Accessories in electronic design. I lectured in Digital and Analog Electronics at RMIT and programming full time. Worked for five years as an Electronic Design Engineer at Turbo Pty. Ltd until 2000. Over the last five years, worked part time as a Control Engineer on a desalination project. **Session 1**

Prashant Dabholkar is an FPGA designer and has designed SONET/SDH/OTN framers and switches for large multi-gigabit optical add-drop multiplexers on both Xilinx and Altera FPGAs. He has also worked as an Embedded Systems Consultant designing with Atmel, STM and TI microcontrollers. He has dabbled in Arduino, having delivered two sold out Arduino workshops for IEEE members. Mr. Prashant Dabholkar has over 10 years experience in this field and is currently pursuing his PhD in Asynchronous Digital Circuits at RMIT University. **Session 2**

Peter Barrett Designer of electronic devices for providing feedback on gait and movement to those affected with an acquired brain injury. E.g the Portable Limb Load Monitor Digital, a battery-powered rehabilitation device designed to measure and record ambulatory ground reaction forces using a control unit connected to an instrumented shoe, equipped with ZigBee wireless option with A/V biofeedback. Now with Graphics touch screen for ease of use for patients. **Session 3**

Anthony E. Gascoigne graduated BE (Hons.) from the University of Melbourne in 1962 and has a Graduate Diploma in Business Administration (Swinburne, 1987). He has over forty-five years professional experience in the design, development, evaluation and proving of electrical and electronics equipment for a range of defence, automotive and Industrial applications. He has held Engineering Management positions in both Australia and Canada (where he lived for several years). **Session 4**
Topics Covered

3D Printing

3D Printing Methods 3D Printers,
- Materials,
- Polymers,
- Metals,
- Design aspects,
- Software,
- Electronic system applications,
- Medical applications
- Fabrication limitations,
- Examples.

Microcontrollers

Hardware Realization using FPGAs or Microcontrollers - Compare and contrast.
Understand how to decide whether to use an FPGA or a Microcontroller depending on system requirements, budget and available support. Examples given.

Hardware Design

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- Project Organisation;
- Design Paradigms;
- Design Reviews;
- Tests & Trials;
- Quality Assurance,
- Electromagnetic compatibility