

Examples of company capability

Engineering Consultancy



- Mathematical modelling of dynamic systems
- Off-line simulation using Matlab and Simulink
- Real-time and hardware-in-the-loop (HIL) simulation

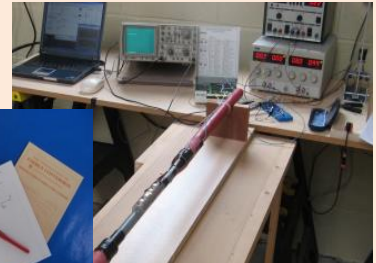
- Analysis and design of feedback control systems
- Visual control algorithms
- Servo systems and motion control
- Project management
- Preparation of technical reports



Contract R&D

Instrumentation for measuring the characteristics of underground power cables

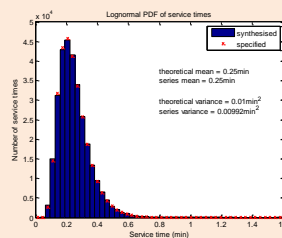
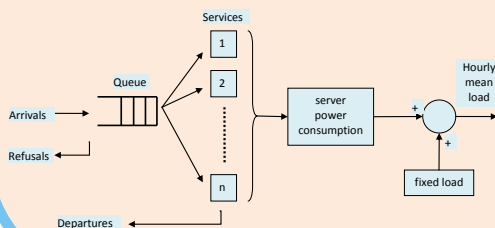
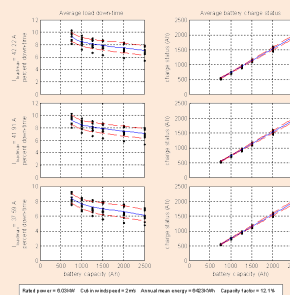
- Sensor selection and installation
- Experiment design
- Real-time data acquisition
- Signal processing
- Interface electronics
- Data analysis
- Reporting



Simulation, Modelling and Control

Estimation of the electrical load for a public convenience in a tourist location

- Simulation of the variation of electrical load due to use of hand-dryers
- Event-driven service-time model to assess the effect of diurnal and seasonal variation of visitor numbers
- Simulation to estimate the size of turbine and battery required to supply the load using a wind generator



Mean hourly power consumption (KW) at mid-month

