

Matthew Kavanagh

Control & Systems Engineer

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Profile

I am a Control & Systems Engineer with nine years industry experience working with a wide range of technologies and systems. I have managed system repairs and upgrades, installations of new systems, on-going maintenance of running systems and have worked extensively with Siemens PLCs. I am also trained in a variety of manufacturing and repair methods including machine and hand manufacturing techniques. In my spare time I am a passionate electronics tinkerer, focused mainly around micro controllers, and have used an array of programming languages including C++, assembly and java.

Skills

Soft Skills

Budget Management, Contract Management, Project Management, Team Management, Team work, Time Management

Hard Skills

Embedded Systems Design & Manufacture, Programming (Web Development and Physical Systems), Computer modelling & Manufacture

Work History

Graduate Engineer, Staythorpe Power Station 2015 - 2017

- Repaired and optimised a building wide HVAC system ultimately saving electricity and maintenance costs.
- Optimised a water treatment process to reduce product hold time between stages as well as plant component total starts and operating times.
- Negotiated with vendors to ensure the most cost effective solutions while coordinating contractors to carry instillation of system modifications.
- Achieved project management certification through the APM.

Placements, Staythorpe Power Station 2012 - 2015

- Catalogued and backed up all transmitters on site in case of emergency and constructed a database to store all information.
- Implemented performance upgrades during outage.
- Developed advanced control systems with remote monitoring.
- Created and tested installation procedures for new gas flow meters.

Apprentice at RWE Npower based at Didcot A Power Station 2008 - 2012

- Vocational learning consisting of theory and practical work ranging from workshop machine manufacturing to classroom business management training.

Education

The University of Sheffield 2012 - 2015

Systems & Control Engineering (BEng Hons)

Newbury College 2010 - 2012

Electrical & Electronic Engineering (BTECH Higher National Certificate)

RWE Ferrybridge Training Centre 2008 - 2012

Energy & Utility Sector (Advanced Level Apprenticeship)
Engineering Technology Maintenance (NVQ Level 3)

Bridgend College 2008 - 2010

Operations and Maintenance Engineering (BTECH National Certificate)
Performing Engineering Operations (NVQ Level 2)

Certifications

- AMP Project Fundamentals (Introductory Certificate)
- Fundamental Inspection, Testing and Initial Verification (Level 2)
- Inspection and Testing of Electrical Equipment (Level 3)
- Requirements for Electrical Installations (Level 3)