Daniel Murphy

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Hardworking Mechanical Engineering (MEng) graduate with 1-year experience as an Undergraduate Software Engineer at Jaguar Land Rover. Seeking a Junior Software Engineering role to utilise proven skills in back-end development.

Education

University of Southampton, 2016-2021

Mechanical Engineering Automotive Themed with Industrial Placement Year (MEng)

Graduated with First Class Honours.

Relevant Modules:

- Advanced Computational Methods: Achieved 91% in this C-based programming module.
- Group Design Project: Lead Electrical Power System (EPS) Engineer for the University of Southampton Small Satellite Program
 - Redesigned the architecture of the EPS software module.
 - Spearheaded a complete rewrite of the EPS module (in C).
 - Completed integration testing between the EPS module and main software module for the first time in the project's history.
- Individual Project: Investigating the Performance and Implementation of Low-Cost Air Quality Monitoring Systems in Southampton
 - Designed and prototyped a low-cost air quality monitoring system with a budget of £100 based on a Raspberry Pi.
 - Devised a Python script that enabled the Pi to gather and store pollutant concentration data.

St Bernard's Catholic Grammar School, 2009-2016

A-Levels	GCSEs	
Mathematics: A*	Mathematics: A*	English Language: A
Physics: A*	Additional Science: A*	Religious Studies: A
Chemistry: A	Spanish: A*	History: A
Business Studies (AS): A	German: A*	Core Science: A
	English Literature: A	Physical Education: B

Experience

Undergraduate Software Engineer: Jaguar Land Rover (June 2018-2019)

- Designed, prototyped and programmed an Arduino-based ECU Fault Induction box that could simulate 120+ faults which revolutionised ECU warranty testing.
- Designed and implemented a new hardware in the loop rig setup to maximise space and minimise time wasted connecting various units, allowing the rig engineer to more efficiently utilise her time.
- Wrote clear, concise code in C, C++ and Python in a team using the scrum agile methodology.
- Extensive testing and debugging of software on the rig before vehicle testing began.

Work Experience: Red Bull Racing and Technology (September 2016)

• Undertook training in CAD and prototyping models in the aero model and design workshops, skills which I used throughout my degree.

Experience designing bespoke solutions.

• Developed my skills in budgeting and using accounting software in the finance office.

Skills

Programming proficiency in C, C++, Python and	Basic German knowledge.
Javascript.	Experience in budgeting for projects.
Basic programming experience in HTML and	Good communication skills.
CSS.	Extensive experience with MS Office.