






# CASEY MCARDLE

## CONTACT

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## EDUCATION

### BACHELOR OF ENGINEERING BEng

ELECTRICAL &  
ELECTRONIC ENGINEERING  
**1ST CLASS HONOURS**  
UCLAN 2021

## SKILLS

### LANGUAGES/LIBRARIES

- |            |           |         |
|------------|-----------|---------|
| Javascript | React     | jQuery  |
| HTML5      | Tailwind  | Node JS |
| CSS3       | Bootstrap |         |

### OTHER

- UI/UX Design using Figma
- Responsive web design
- Version control with Git
- Testing with Jest
- Ability to write clean, maintainable, and scalable code
- Familiarity with Agile development methods

### SOFT SKILLS

- Enjoy collaboration and working as part of a team
- Problem-solving: Strong analytical skills for identifying and addressing technical challenges, finding optimal solutions
- Effective communication and interpersonal skills for seamless collaboration with team members and stakeholders

## CERTIFICATIONS

### Meta Front-End Developer Professional Certificate

COURSERA.ORG - 2023

### The Complete Javascript Course - From Beginner to Expert

UDEMY.COM - 2021

## PROFESSIONAL SUMMARY

Motivated Electronic Engineer with seven years of production and design experience, seeking a dynamic Junior Front-End Web Developer role. Dedicated to leveraging technical skills and creativity to craft captivating user experiences. Goal-oriented and aspiring to evolve into a proficient full-stack web developer.

During my tenure as a Design Engineer, I embarked on a self-driven journey to acquire mastery in cutting-edge Web Development technologies. This personal initiative was sparked by my leadership role in revamping the test procedures at Protec Fire Detection, where I witnessed the remarkable potential of modern Web Development and IoT technologies. I devoted myself to extensive research and hands-on implementation, immersing myself in JavaScript-based solutions that enabled seamless microcontroller interfacing, drawing inspiration from the Johnny-Five.io platform and utilising Node Serial Port.

My unwavering dedication to expanding my skill set played a pivotal role in the design and development of fully interactive web-based user interfaces at Protec. Leveraging my newfound expertise in JavaScript, HTML, and CSS, in combination with Arduino, I effectively facilitated factory testing and programming of diverse electronic products. A notable achievement was the precise calibration of smoke detectors, where I seamlessly integrated the Canvas Gauge API to provide operators with intuitive visual feedback throughout the calibration process.

With a proven track record of innovation and an unwavering commitment to self-improvement, I possess the confidence to excel as a Front-End Web Developer. I am enthusiastic about contributing my technical expertise and leveraging the invaluable lessons learned during my self-driven exploration to make a significant impact in the field.

## RELEVANT EXPERIENCE & ACHIEVEMENTS

### PCB DESIGN ENGINEER - AVALON DESIGN (REMOTE)

March 2022-

- Provided ongoing expert consultancy and remote support for Avalon Design, delivering exceptional service and exceeding client expectations on a regular basis
- Lead the modernisation of legacy designs, utilising cutting-edge SMD technology to replace outdated through-hole architecture, resulting in a significant improvement in product performance and reliability

### DESIGN ENGINEER - PROTEC FIRE DETECTION PLC NELSON, LANCASHIRE September 2019 - Present

- Drove business growth and innovation by spearheading the research and implementation of cutting-edge technologies, including Node JavaScript and Electron for IoT applications, expanding market reach
- Developed a highly efficient Interactive Test interface utilising JS/HTML/CSS technology, which was successfully integrated into the Test-room and throughout Production, resulting in a significant reduction in product lead times and a substantial increase in throughput
- Spearheaded the design and development of a cutting-edge loop driver used for modulating data down a control loop during in-house testing at Protec Fire Detection. Leveraging an Arduino and a power op-amp, this innovative driver was engineered to be 5V USB capable, replacing outdated and cumbersome hardware that was challenging to maintain. This achievement showcases my ability to identify opportunities for improvement and implement efficient solutions.

### PRODUCTION ENGINEER - PROTEC FIRE DETECTION PLC NELSON, LANCASHIRE May 2016 - September 2019

- Collaborated with cross-functional assembly teams to build and test complex electronic designs, continuously refining and optimising processes to achieve superior technical performance
- Pioneered the development of a comprehensive fault & common repairs database that transformed product testing and troubleshooting, enabling non-technical operators to perform repairs and eliminating the need for costly Engineer callouts
- Established a rigorous testing and troubleshooting methodology, meticulously documenting issues and continuously fine-tuning processes to ensure optimal performance and quality assurance