CASEY MCARDLE

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in https://tinyurl.com/CaseyLinked

🌐 https://tinyurl.com/cjmcardle

⌷ https://github.com/CaseyJamess

SUMMARY

Motivated Electronic Engineer with seven years of production and design experience, seeking a dynamic Front-End Web Developer role. Dedicated to leveraging technical skills and creativity to craft captivating user experiences - bridging technology & design

Goal-oriented and aspiring to evolve into a proficient full-stack web developer. A proven track record of innovation and an unwavering commitment to self-improvement, possessing the confidence to excel as a Front-End Web Developer. Enthusiastic about contributing technical expertise and leveraging invaluable lessons learned during self-driven exploration, to make a significant impact in the field

RELEVENT EXPERIENCE

Protec Fire Detection (Bosch Family)
Design Engineer, September 2019 - Present   Nelson, Lancashire

- *Redesigned the entire factory test procedure at Protec Fire Detection for man by developing multiple highly efficient Interactive Test interface utilising JS/HTML/CSS technology, resulting in a significant reduction in product lead times and increased throughput*
- *Implemented JavaScript-based solutions for seamless microcontroller interfacing using the Johnny-Five.io platform and Node Serial Port*
- *Successfully calibrated smoke detectors by integrating the Canvas Gauge API into web-based user interfaces, providing intuitive visual feedback for operators*
- *Led the design and development of a cutting-edge loop driver using an Arduino and a Power 0p-amp, replacing outdated hardware and improving maintainability & 5V USB capable*

Avalon Design
PCB Design Engineer March 2022 - Present (Remote)

- *Maintained up-to-date knowledge of new component manufacturers & their offerings to ensure the use of the latest technologies in client projects*
- *Utilised cutting-edge Surface Mount Device (SMD) technology to modernise legacy designs*
- *Upgraded outdated through-hole architecture with SMD components, enhancing the overall product quality and longevity, whilst increasing profit margin*

Protec Fire Detection plc
Production Engineer, May 2016 - September 2019

- *Collaborated with cross-functional assembly teams to build and test complex electronic designs, continuously refining and optimising processes for superior performance*
- *Developed a comprehensive fault & common repairs database, transforming product testing & troubleshooting, eliminating costly engineer callouts by empowering non-technical operators to perform repairs, reducing costs and downtime*
- *Established a rigorous testing and troubleshooting methodology, ensuring optimal performance and quality assurance*

SKILLS

- Javascript (ES 6+)
- HTML5, CS3
- React JS
- CSS Frameworks: Bootstrap, Tailwind CSS
- Version Control: Git
- UI/UX Design Principles: Figma
- Responsive Web Design
- Front-End Testing: Jest
- RESTful APIs
- Debugging & Troubleshooting
- Enjoy Collaboration
- Excellent Communicator

EDUCATION

BEng Electronic & Electrical Engineering
First Class Honours Degreee, University of Central Lancashire 2016-21

INTERESTS

- Personal Development: Embracing the Kaizen principle for continuous improvement in all facets of life
- Skiing: Enjoying the thrill of skiing, being in nature and taking in the views
- Music: I have a deep passion for music and its profound connection to creativity, expression, and the beautiful interaction that occurs when playing together with others
- Philosophy: Love debating especially around Ethics - inspired by thinkers such as Joseph Fletcher, Kant & Aristotle
- Travel: I am also enthusiastic about exploring new places and immersing myself in different cultures, as it broadens my perspective and fuels my sense of adventure