

Jamie Buick

Mobile: +353 (85) 807 0301 **Telephone:** (028) 25861957 **Email:** jamiebuick28@gmail.com

Address: 6 Harbour Cottages, Carlingford, A91 TX92

Experienced software engineer specialising in the development of functionality and Human-Machine Interface (HMI) for off-road vehicles. Seeking transition into the web-based software industry. Currently undertaking a comprehensive full-stack development course online, focusing on mastering modern web technologies such as HTML, CSS, Javascript, Node, React, PostgreSQL. Have successfully built and deployed several basic websites for clients utilising HTML, CSS, JavaScript, and PHP, integrating API links to Mailchimp for email marketing automation. Eager to leverage newfound skills in transitioning into the web-based software industry.

Education

Ulster University

September 2017 - June 2022

MEng Electronic Engineering, 1st class honours (Grade transcripts can be provided on request)

Augsburg University of Applied Sciences

March 2021 - July 2021

MEng Mechatronic Systems, 1st class honours (Grade transcripts can be provided on request)

Projects

- Developed a Pan-Tompkins Algorithm using MATLAB to accurately detect heart rate and abnormalities within ECG traces,
- Developed hardware and software for device to capture ECG signals and transmit these to a Bluetooth Application for visualisation,
- Developed hardware and software for a IoT-based COVID-19 Clock In Machine. This device required the user to provide a temperature sample that was then transmitted to the Cloud,
- Developed the hardware for an Energy Harvesting system to power Wireless Sensors through Vibration energy.

Skills Profile

- Proficient in Microsoft Office & Google Applications,
- C, C++, C#, Structured Test (IEC 61131-3) and Python,
- Basic use of HMTL, CSS and Javascript,
- Altium Designer, CodeSys 3.5, Git, MATLAB and Zenhub,
- Experienced in Hardware Design, Prototyping, and Electronic Soldering.

Experience

Cargotec Ireland Ltd – Software Engineer

June 2023 – Present, Dundalk, Ireland

- Write code in VCL (Vehicle Control Language) and Structured Text for programming functionality and Human-Machine Interface (HMI) of off-road vehicles,
- Investigate trends in data from sensors using Python,
- Conduct thorough testing of programs to ensure functionality and reliability,
- Perform fault finding and debugging to identify and resolve software issues,
- Implemented GIT to manage codebase and track changes effectively.

Sensoteq Ltd – Graduate Electronic Design Engineer

July 2022 – June 2023, Belfast, Northern Ireland

- Developed a Manufacturing Information System to store production test data, product locations and related information. This was developed using C# and SQL.
- Soldering and Mechanical assembly of products and prototypes,
- Schematic design and PCB layout using Altium Designer,
- Sourcing and ordering electronic components through Industry Suppliers,
- Bill of Materials and Work Instruction generation.

Sensoteq Ltd – Electronic Design Placement Student

June 2019 – May 2022, Belfast, Northern Ireland

- Soldering and Mechanical assembly of products and prototypes,
- Production testing of products and fulfilling customer orders,
- Liaise with suppliers and manufacturers,
- Experience using MRP platforms for management of stock and orders – Flowlens,
- Process design and development.

References

Available Upon Request.