

Thomas Shanahan

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WORK EXPERIENCE

(Nidec) Control Techniques (Newtown, Powys)

Software Developer

Jan 2023 - Present

- Design and implementation of improvements and new features for "Connect" - a PC tool used for configuration of Control Techniques products - (C#, WPF) and its Safety component (MISRA C, dynamic-link-libraries).
- Diagnosis and fixing of bugs in firmware (MISRA C) and PC tools (C#).
- Review and integration testing of safety-critical firmware changes (LDRA).

Software Tester

May 2019 - Jan 2023

- Expansion of automated framework used to regression test changes to fieldbus modules, including stress/load tests and analysis of motion profiles.
- Primary tester on CANopen fieldbus and elevator drive (E300) firmware projects.
- Various validation and testing assignments across a variety of products; including PLC solutions, PC tools, and input-output bus couplers.

Calrec Audio (Hebden Bridge, West Yorkshire)

Software Tester (inc. University Placement)

Aug 2017 - Jan 2019

- Designed and prototyped an automated test harness for regression testing of UI updates to Type-R and RP-1 web-based control applications.
- Exploratory black-box testing on Type-R modular radio mixing desk, and RP-1 remote audio production unit.
- Primary tester on Brio and Summa mixing desk firmware releases, occasional testing roles on Apollo maintenance releases.

Various

Miscellaneous job and volunteer roles, details available on request.

2012-2017

EDUCATION

Leeds Beckett University

Bachelor of Science in Music Technology - 1st Class (Hons)

Class of 2017

- Final-year focus on human-computer-interfaces, live audio-visual programming, and data sonification.
- Selected fields: Acoustics, Audio-Visual Interfaces, Sound for Screen.

Skills & Certifications

Feabhas EL-504: Developing for Linux Device Drivers

Feabhas C-501: C for Real-Time Embedded Developers

ISTQB Certified Tester, Foundational (2018)

Projects

See: <https://codeberg.org/gremlin>