Roxy Harvey

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Work Experience

Arm Ltd
Senior Performance Modelling Engineer - MCN Systems IP
Main responsibilities: Create, run, and analyse system models of current and future MCN IP

June 2026 –

- Performance analysis of future mobile-class systems utilizing ARM MCN Interconnect IP
- Development of C++ performance models for MCN IP
- Development of tools for event capture and statistics analysis

Imec
R&D Engineer
Main responsibilities: Develop new AI scale-out simulator infrastructure and run investigations

July 2025 – June 2026

- Develop new scale-out simulator infrastructure
- Run workload simulations on new infrastructure
- Assist other team members in specialised investigations

Arm Ltd
Modelling Engineer - Systems Performance Modelling
Main responsibilities: Create, run, and analyse system models of current and future Arm IP

October 2020 – July 2025

- Performance analysis of future server-class systems utilizing ARM CMN Interconnect IP
- Performance analysis of DDR5 subsystems
- Development of tools for experiment generation and results analysis

University of Calgary IT
Schulich School of Engineering IT Intern then IT Generalist (Part-time)
May 2014 – April 2016

- Deskside support for Windows and Linux systems
- Headed up transition Linux to Cygwin on Windows for software engineering lab
- Deployment and management of Windows systems with SCCM

University Engineering Projects

PhD Research at Cranfield University
PhD Research project in 1/5th scale autonomous vehicle dynamics control testing platform, funded by EPSRC and working in association with the AID-CAV project.

Provisional thesis title: Real-Time Implementation of Vehicle Dynamics Control Algorithms on a Scale Platform
September 2019 – June 2020

- Design and analysis scale platform in CAD and FEA
- Component selection and initial development of communication and computation

UVigo Motorsport
UVigo Motorsport is a student lead and run competition team that designs and builds a formula-style racing car to compete in the Formula Student

Team Member, Electronics Department

October 2016 – October 2017
- Arduino development of servo control and sensor data sampling
- Aided in translation from Spanish to English

Nibble Knowledge
Nibble Knowledge is an entrepreneurial final year design project that developed an education computer kit where users are able to build every piece of a computer from simple electronic parts and learn how each part works at the circuit level.

Founder and Lead
September 2015 – April 2016
- Lead 15 people in a combination of marketing, documentation, software and hardware teams
- Operated as a system architect, directing technical decisions at both hardware and software levels
- Operated as a software team member, wrote build scripts and an assembler

Schulich AeroDesign
Schulich AeroDesign designs and builds an unmanned aerial vehicle for an engineering competition where the goal is to produce a vehicle that can lift the most weight into the air.

Vice President of Design and later President
September 2012 – August 2015
- Took greater responsibility as needed to continue team success
- Designed two planes from the ground up
- Created CAD models in Solidworks
- Performed FEA analysis of the structure in AutoCAD Inventor

Skills

Languages:
Spanish: Intermediate (B2)

Programming/Markup languages:
C, C++, Bash, Python

Development tools:
Git, Makefiles

Education

Master of Science in Advanced Motorsports Mechatronics
Graduated October 2019
School of Aerospace Transport and Manufacturing, Cranfield University (United Kingdom)
Thesis: Development of a Software Architecture for a Scale Autonomous Limit Handling Platform

Bachelor of Science in Software Engineering Internship Program with Distinction
Graduated April 2016
Schulich School of Engineering, University of Calgary (Canada)