

# Ryan Harvey

Burwell, Cambridge  
rkharvey@mekapaedia.com  
<http://mekapaedia.com>  
+44 (0) 7999 915582

## Work Experience

### Arm Ltd

Modelling Engineer - Systems Performance Modelling

Main responsibilities: Create, run, and analyse system models of current and future Arm IP

October 2020 –

- 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)