

Sam Kent

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Education

The College Of Richard Collyer

September 2010 – June 2012

- A-Levels
 - Electronics: A*; Computing: A; Maths: A*; Further Maths: B;
(For my Computing project, I designed and programmed an audio effects unit app for iOS. This involved using the Core Audio framework to manipulate the audio data)
 - Extended Project Qualification: A
(USB Midi Controller using an Arduino Mega to process and interface with the computer)

University Of Leeds

September 2012 - Present

- Year 1
 - Circuit Analysis & Design, Electronic Materials & Devices, Communications Systems, Fundamentals Of Electrical Engineering, Digital Electronics & Microcontrollers, Analytical Techniques
- Year 2
 - Mobile Applications Project, Embedded Systems Project, Energy Systems & Control, Communications Theory, Transistors & Optoelectronics, High Frequency Circuits & Systems
 - Embedded Systems Project achieved design and build of a Guitar Hero style game using a Nokia 3310 display and an mbed LPC1768.
- Year 3
 - Digital Communications, RF and Microwave Engineering, Semiconductor Technology, Embedded Systems, Professional Studies,
 - Group Design Project consists of designing and building a modular synthesizer as 50% of the 3rd year course in a team of 4. This includes a range of techniques such as analog circuit design, DSP, PCB and project management.
- Year 4 – Demonstrations Engineer Placement at ARM
- Year 5 – MEng aiming for a 1st
 - DSP for Communications, Data Communications and Network Security, FPGA Design for SoC, Embedded Microprocessor System Design, Industry Dissertation, Individual Project
 - The individual project involves investigating, designing, and building a system to monitor the amount of Hand Arm Vibration a user is exposed to. This has involved experimenting with accelerometers and tools, prototyping embedded systems, processing data in both MATLAB and on board using CMSIS-DSP, and managing the time and tasks needed to complete the project.

Skills

- Programming Experience
 - Proficiency in languages used in work, education and programming at home:
C, C++, C#, Objective-C, Processing, Java, .NET, PHP, JavaScript, jQuery, HTML5, SQL
- Microcontroller Experience
 - Used various microcontrollers and IDEs to design, develop, and debug small and large projects
 - Experience with Keil MDK, DS-5, CMSIS, GCC, CMake, Eclipse, Arduino, mbed

- Linux
 - Setting up servers, development environments, and projects on Servers, Single Board Computers, and VMs
 - E.g. OpenCV on Firefly RK3288, Sensors To Servers on Applied Micro XC-1

Employment

Demonstrations Engineer Intern (ARM)

July 2015 – August 2016

- Building demonstrations using ARM technology
- Discussing features and implementations of demos at events/trade shows such as ARM Tech Con and Embedded World
- Projects include: Data visualizer for Sensors to Servers IoT Demo, Twitter Powered Giveaway Dispenser, Traffic Sign Recogniser, IR Touchscreen

Development Subcontractor (Freeman PC Services)

June 2011 – June 2015

- Used a variety of programming languages – PHP, HTML, Java, C, C#
- Worked on a variety of projects – including a cyber forensics application
- Worked to deadlines and project specifications
- Interacted with clients to understand their requirements for the system

IT Assistant (Nucleus Ltd)

July 2010

- Paid work experience
- Rebuilt servers, configured networks, PAT tested equipment, helped out with general IT problems around the office

Self Employed Web Development

2007 – June 2011

- Developed web systems for local clients
- Interacted and discussed ideas with clients to successfully complete projects
- Worked to deadlines

Other Projects

- Soundsystem
 - Designed and built a small sound system in Leeds to hire out for parties, and events.
 - Designed and built speaker boxes to get the best sound using tools such as WinISD to simulate designs
 - Repaired broken equipment such as amplifiers, mixers & turntables
 - Managed bookings, transport and finances for the business
- Smartwatch
 - Designed and prototyped a smart watch using a NRF52 dev board to receive notifications from my phone using BLE
- Custom Analogue Audio Mixer
 - Breadboarding analogue audio circuits, PCB design, troubleshooting issues
- Sound reactive light show
 - Audio processing, DSP, prototyping the lights