Abayomi Omotosho-Ikuru

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Education	The University of Sheffield	UK
	BEng Electronic Engineering	2017 - Present
	Expected: First Class	

Professional Experience

VolkerRail Ltd.   June – June 2020
Electrical Design Engineering Intern (Placement Year)   Doncaster, UK
- Designed and developed electrical design schematics and simulations in a team for use on the railway
- Managed the entirety of a design job; understanding the scope, rectifying issues in electrical simulations, improving design workflow with efficient team communications

CBC Emea   August 2016
Web Development Intern
- Learned to design and code websites in an agile environment

Project Experience

Final Year Project   Sept. 2020 - Present
University of Sheffield, EEE Department
- Development of algorithms to embed and extract invisible watermarks from digital and print media for copyright protection
- Improved technical knowledge on computer vision and image signal processing
- Writing an IEEE Article on the findings and performance of the algorithm
- Development of a Web Application for user access to the software
- Making use of Python, OpenCV, NumPy, PyWavelets and Git

IMechE Formula Student   2017 - Present
University of Sheffield, Sheffield Formula Racing (SFR)
- Member of a new initiative, the Electric Powertrain team to design and develop an electric formula student car in conjunction with the IC car
- Improved technical knowledge of mechanical designs in tandem with electronics and software – **Developing CAN comms. and data logger using micro-controllers.**
- Developed better communication and teamwork skills in the inter-disciplinary team of 60 members

Raspberry Pi Server   May – November 2020
Personal Project – yomis.blog/piserver
- Designed and 3D printed a home server for local backups and network apps
- Using Fusion 360 (CAD), Python, React, HTML, CSS, Docker and JavaScript

Extra-Curricular Activities

Server Build Maintenance – yomis.blog/server-pc
- Built a Server PC running Linux as a hypervisor with Kernel-based Virtual Machine (KVM) to virtualise other operating systems
- Learned more about the Linux kernel, kernel patching, resource sharing & management, network protocols, scripting and Docker containers

Photography Society Publicity Officer
- Improved member engagement through the effective use of social media platforms
- Developed illustration and animation design skills to promote events

Photography Website – yomitosh.com built with Next.js static site generator
iOS App Development – Developed an published an iOS app to the App Store

Skills

Languages: C/C++, Swift, Python, MATLAB, JavaScript
Frameworks: React, Next.js
Development Tools: Git, Xcode, VSCode, Linux, Docker
Other: Photoshop, Blender, Arduino IDE, SQL