

Education	The University of Sheffield BEng Electronics Engineering Predicted: First Class	UK 2017 - Present
Professional Experience	<p>VolkerRail Electrical Design Engineering Intern (Placement Year)</p> <ul style="list-style-type: none">Designed and developed electrical design schematics and simulations in a team for use on the railwayManaged the entirety of a design job; understanding the scope, rectifying issues in electrical simulations, improving design workflow with efficient organisation of files and communications <p>CBC Emea Web Development Intern</p> <ul style="list-style-type: none">Learned to design and code websites in an agile environment	<p>June – June 2020 Doncaster, UK</p> <p>August 2016</p>
Project Experience	<p>Final Year Project University of Sheffield, EEE Department</p> <ul style="list-style-type: none">Development of algorithms to embed and extract invisible watermarks from digital and print media for copyright protectionImproved technical knowledge on computer vision and image signal processingWriting an IEEE Article on the findings and performance of the algorithmDevelopment of a Web Application for easy access to the softwareMaking use of Python, OpenCV, NumPy, PyWavelets and Git <p>IMechE Formula Student University of Sheffield, Sheffield Formula Racing (SFR)</p> <ul style="list-style-type: none">Member of a new initiative, the Electric Powertrain team to design and develop an electric formula student car in conjunction with the IC carImproved technical knowledge of mechanical designs in tandem with electronics and softwareDeveloped better communication and teamwork skills in the inter-disciplinary team of 60 members <p>Raspberry Pi Server Personal Project – project webpage</p> <ul style="list-style-type: none">Designed and 3D printed a home server for local backups and network appsUsing Fusion 360 (CAD), Python, React, HTML, CSS, Docker and JavaScript	<p>Sept. 2020 - Present</p> <p>2017 - Present</p> <p>May 2020 - Present</p>
Extra-Curricular Activities	<p>Server Build Maintenance</p> <ul style="list-style-type: none">Built a Server PC running Linux as a hypervisor with Kernel-based Virtual Machine (KVM) to virtualise other operating systemsLearned more about the Linux kernel, kernel patching, resource sharing & management, network protocols, scripting and Docker containers <p>Photography Society Publicity Officer</p> <ul style="list-style-type: none">Improved member engagement through the effective use of social media platformsDeveloped illustration and animation design skills to promote events <p>Photography Website - website built with Next.js SSG</p>	
Skills	<p>Languages: C/C++, Swift, Python, JavaScript</p> <p>Frameworks: React, Next.js, OpenCV</p> <p>Development Tools: Git, Xcode, VSCode, Linux, Docker</p> <p>Other: Photoshop, Blender, Arduino IDE</p>	