

Dominic McCollum

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I am currently studying at Sheffield Hallam University and I am seeking a placement in a software development role. Before university I spent 11 years working at Telent, specialising in railway telecoms networks. Outside of work, I am learning French, I build computers, and I am a member of both the Games Development and the Esports societies. I also volunteer my time as the course representative because I believe that community representation is important.

Education

Sheffield Hallam University, September 2019 – Present

BSC Computer Science for Games

- Fundamentals of Computer Architecture
- Introduction to Games Development
- Systems Modelling for Games
- Mathematics for Graphics
- Fundamentals of Programming for Games
- Professional Experience and Project Development

I completed the modules listed in the first year of my degree. I gained experience in C++, C#, x86 assembly, HTML5, CSS3, Visual Studio, Unity, and Unreal. My second year has continued the focus on C++, underpinned with an emphasis on mathematics. Maths is my strongest subject, and I achieved an average of 99% in Mathematics for Graphics and overall, in my first year I achieved an average grade of 89%.

Telent / Warwickshire College, September 2008 – July 2010

Advanced Apprenticeship for IT & Telecoms Professionals

Level 3 NVQ for Communications Technology Professionals

Level 3 National Certificate in Communications Technology

- Communications Technologies
- Communications for Technicians
- Health, Safety, Risk Assessment and Welfare in the Engineering Workplace
- Mathematics for Technicians
- Electrical and Electronic Principles
- Telecommunications Principles
- Networking Basics (CCNA1)
- Router and Routing Basics (CCNA2)

I gained the qualifications listed above as an apprentice in the Transport Department of Telent. In addition to these qualifications I gained industry recognised certification under the Cisco CCNA program, earning a merit in those modules. In the other modules listed I received a distinction and overall, I achieved the double grade distinction, merit which was the highest grade achieved in my class.

North West Kent College, September 2005 – July 2007

Level 3 National Diploma in Electrical / Electronic Engineering

- Project – Electrical/Electronic
- Electronics
- Communications for Technicians
- Electronic Computer Aided Design and Analysis
- Microelectronics
- Electronic Fault Finding
- Electrical Technology
- Analogue Electronics
- Electronic Circuit Manufacture

As part of this qualification I completed a project in which I designed and manufactured a working prototype of a breath testing device that could be installed in a car to disable the ignition if the driver is over the drink drive limit. I presented the prototype and design to lecturers and guests from the electronics manufacturing industry and received the double grade distinction, distinction. Overall, I received the triple grade distinction, merit, merit, which was the highest grade achieved in my year group.

Technical Skills

- Languages; C++, C#.
- Cisco ASR 903 (Installation and testing)
- Cisco CGS 2520 (Installation and testing)
- One Access AECIP LLA (Installation and testing)
- Cisco Catalyst 3850 (Installation and testing)
- Cisco Catalyst 4500X (Installation and testing)
- Juniper SRX 5400 (Installation)
- Electrical installation and inspection to BS7671:2018

In addition to these technical skills I also held the Controller of Site Safety competency including OLE and DC permits from 2011 to 2019 and I held Level C (access to live substations) from 2014 to 2019. I have also written documentation for internal use on the installation and start-up of the ASR 903 and the AECIP LLA.

Employment

Sheffield Hallam University, October 2019 – Present

Student Experience Ambassador

November 2019 – March 2019

Library Ambassador

October 2019 – Present

Course Ambassador

October 2019 – December 2019

I have held three positions at SHU, each of which required a professional approach in assisting visitors and students while representing the Department of Computing and the SHU libraries. My duties included / include:

- Speaking to students to understand what makes them feel part of a community within the Department of Computing.
- Arranging events that improve community engagement, e.g. Christmas quiz.
- Assisting visitors on open days; answering their questions and guiding them to presentations.
- Canvassing students to increase National Student Survey engagement.
- Recording the condition of meeting rooms and IT equipment.
- Designing surveys to gather student opinions.
- Organising library stock using the Dewey Decimal System.
- Supporting students during strike action.

Telent, September 2008 – August 2019

Test and Commissioning Engineer

- Ensure that testing is completed to a specified standard such as, FTN, BS7671:2018, etc.
- Coordinate a multidisciplinary team to complete the test and commissioning of network elements within project deadlines.
- Collate and check results from the testing team for entry onto the testing certificate by the PICOT.
- Conduct fault finding on complex telecoms networks, collaborating with third parties where necessary.
- Be accountable for safety arrangements such as electrical isolations and line blockages.
- Report issues promptly using recognised industry methods such as via a Defect Observation Record.
- Mentor junior team members in the correct testing procedures and safe working practices on the operational railway.
- Install network elements to a high standard, adhering to customer specifications and to British standards.
- Proactively maintain technical knowledge as equipment and processes are updated.
- Ensure team and public safety on and around my worksite.
- Conduct site handover tours with customers.

References available upon request.