Adam Worrall

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Programming portfolio: https://github.com/adintra

Personal Statement

I am a hard-working engineering student and programmer, with high grades and skills demonstrating my enthusiasm. This is demonstrated by achieving the Engineering Student of the Year award 2017 by West Cheshire College. Currently, I possess a strong interest in MATLAB and Python programming in the topic of Artificial Intelligence and Control Theory. In five years, I see myself undertaking work in research after completing a master's degree or be in the process of completing a PhD.

Education

2017 – 2021   MEng (Honours) Electronic and Electrical Engineering, University of Chester
First year results:

Professional Skills for Scientists and Engineers (82), Mathematics for Scientists and Engineers (88), Principles of Electronic and Electrical Engineering (74), Material Science and Engineering (75), Manufacturing Technology (69), Dynamics of Mechanical Systems (68), Fundamentals of Automation and Robotics (80), and Introduction to Applied Electromagnetism (71).

Second year results:

Mathematics and Modelling (99), Analogue and Digital Circuit Design (92), Electronic and Electrical Engineering Industry Based Project (80), Power Systems (90), Electrical Machines (95), Signal Processing Systems (73), Electromagnetic Fields and Waves (93), and Engineering Control (96).

Third year result: Expected 1st

2015 – 2017   West Cheshire College

- BTEC Level 3 90-credit Diploma in Engineering (QCF)
  Result: Distinction* Distinction* (D*D*)
- EAL Level 2 Diploma in Engineering Technology
  Result: Certificate Awarded
- GCSE Maths and English
  Result: A and C

2010 – 2015   Christleton High School

   GCSEs: 3 (3Cs) excluding Maths and English due to improved grades in college

Employment History

2017 – 2019   Aviagen Turkeys Ltd

- Part-Time Farm Labourer.
- Worked as part of a small team to maintain the efficient operation of the farm.
- Applied high quality welfare standards.
- Understood and helped to maintain excellent health and safety standards.

Work Experience and Internships

June – July   **Terahertz Laboratory 6 Weeks Internship, University of Chester**

2019 – 2019

- Assigned to sub-Terahertz camera team project to construct and deliver a database of sharp knives and scissors for A.I training.
- Designed improvements to the sub-Terahertz camera to take 3D images for further database applications.
- Utilized knowledge of the C programming language via the use of programming microcontrollers in projects. Fabricated a microcontroller housing utilising knowledge of CAD designs in Autodesk Inventor and prototyped using a 3D printer.

May – June   **Second Year Industry Based Project 5 Weeks, University of Chester & RFIDdirect**

2020 – 2020

- Tasked with researching Ultra High Frequency (UHF) Radio-Frequency Identification (RFID) technology within a wood environment and finding potential research pathways to resolve poor performance.
- Research involved the modelling of UHF RFID transponders. Used MATLAB with Antenna Toolbox to analyse UHF RFID antennas.
- Utilised Caen RFID Proton, Circularly Polarized Antenna, and UHF RFID transponders to perform power loss experiments.
- Developed C# programming skills by interfacing with the Caen RFID Proton API for experimentation.

Prizes and Awards

- Awarded the Engineering Student of the Year Award 2017 by West Cheshire college and South Cheshire college for my work ethic and high grades. Award recognised by Unilever via congratulatory letter.

Additional Skills and Professional Development

- Completed MATLAB Master Class course on Udemy, gaining skills in data pre-processing and machine learning. URL: ude.my/UC-L2QNYWB8
- Completed PyTorch for Deep Learning with Python Bootcamp course on Udemy, gaining skills in Python, NumPy, Pandas, Matplotlib, and Artificial Intelligence. URL: ude.my/UC-JAWT7JZU
- Have programming skills in Arduino, C, C++, C#, Java, MATLAB, and Python.
- Proficient in the use of Autodesk Inventor, CST Microwave Studio, Eclipse, Linux Operating System, Microsoft Office, Microsoft Visual Studio, Microsoft Windows Operating System.
- Proficient in circuit creation and analysis skills, such as through hole soldering, surface mount technology soldering, multimeter analysis, and oscilloscope analysis.
- Full clean driving licence.

Personal Interests

- I am enthusiastic at being an electronics hobbyist. Recently, I have set up a 3D printer, transforming CAD designs I have created into real world prototypes.
- I enjoy educating myself about computers, programming, and IT. Currently, I am developing my skills in the Linux operating system.
- For the past few years, I have taken an interest in game design and game engines. In my spare time I read about various game engines, and experiment by creating simple games within them.

References available on request