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Profile   
A hardworking and passionate individual with a strong sense of leadership and drive to improve. Feeling Inspired and motivated are a by-product of working with a team and my ability to plan, organise and lead by example are a testament to my work ethic. I strive to learn new things and take the initiative whenever possible.

Education  
UNIVERSITY OF LINCOLN 2021-2022 (MSc) Robotics and Autonomous Systems (Current)

* **Advanced Artificial Intelligence – (2.1)** – In Python create an AI character in a pacman inspired game and make them survive as long as possible using an MDP approach
* **Robot Programming – (2.2) –** Using Python and ROS techniques, program a Thorvald Robot to autonomously count the berries growing in a wide range of mazes.
* **Foundations of Robotics –** (2.2) created a robot from scratch, using a microcontroller and C++ and programmed it to be controlled via a RF transmitter and any Bluetooth capable of sending BLE commands.
* **Frontiers of Robotics Research –** Designing the Infrastructure for an Autonomous Surveillance Drone capable of locating and navigating to a target via Facial Recognition. Said robot is also capable of receiving new targets while active.
* **Computer Vision –** Create an algorithm, using MATLAB, for automatically detecting and segmenting skin lesions; create an algorithm to detect and calculate Image features, create an algorithm to implement a Kalman filter and tracks an objects trajectory in Cartesian coordinates, from a noisy input (coordinates containing incorrect data).
* **Advanced Machine Learning –** Train multiple AI agents (using chosen Deep learning Machine Learning Models and policies in python, PPO and DQN) to play Super Mario bros. Program an Image classifier to detect Pneumonia in medical images.

UNIVERSITY OF LINCOLN, 2018-2021 (BSC) Bachelor of Science in Computer Science - 2:1

* + **Programming and Data Structures (First) -** Created an advanced text-based game using high-level C# code.
  + **Computer Architecture (First) -** Exam on Embedded systems, instruction set and flow, CPU and more.
  + **Maths for Computing (First) –** Matrices, Linear equations, Binary conversion/ arithmetic.
  + **Scalable Database Systems Presentation (First) –** Designing, manipulating, and enforcing security protocols on a database to protect against SQL injections.
  + **Team Software Engineering Report (First) –** Created image processing software and motion software for a Robot.
  + **Artificial intelligence – (First)-** programming a robot using PDDL.
  + **Problem Solving (2.1) –** Discovering clues and breaking down a series of questions.
  + **Cloud computing (2.1) –** setting up virtual services for a business using templates and YAML/ Python.
  + **Machine learning - (2.1) –** Analysing the performance of a polynomial regression algorithm to find the best performing degree, analysing a dataset containing cancer and developing a set of classification models for automatically classifying patients as healthy or cancerous.
  + **Autonomous Mobile Robotics – (2.1) –** Programmed a robot using ROS to solve a maze whilst avoiding dead ends and marked areas.

NORTH KENT COLLEGE, 2016-2018

* BTEC Extended Diploma in IT.

SAINT THOMAS APOSTLE COLLEGE

* 10 GCSES A – C – Including Maths and English.

Technical Skills

Proficient in Java, C++, Python, C#, and HTML, Bash scripting.

Experience in computer hardware replacement, software installations and network configuration/setups.

Experienced in programming robots using ROS.

Well versed in using the google cloud platform.

Comfortable with GitHub for project tracking and management.

**Relevant Experience**

Strawberry Technician - University research project sponsored by SAGA Robotics.

Team Software Engineering - Created image processing software for a Robot.

Advanced Programming - Developed a geometrically accurate Shape simulation tool.

Scalable Database Systems - Designed, manipulated, and enforced security protocols on a Database.

Personal Project - Coded a Virtual, voice-controlled Desktop assistant.

College Project - Created a calculator for simulating the size of an enclosed area.

Operating Systems - Bash and batch file programming for automating simple computer tasks.

Web Authoring - Website design, development, and hosting.

Programming and Data Structures - Console application for receiving, storing, and manipulating user input.

College Project - GUI design and programming.

Personal Project/ internet of Things - Programmed Arduinos for data collection and automation.

Key Skills

**Communication**

Experience delivering presentations to academic staff and students alike as well as great verbal and written communication skills through leading group projects.

**IT**

Adept in the use of most Microsoft Office tools and quick at learning new systems.

Comfortable on Windows and Linux systems.

Employment History

**Summer Placement Strawberry Technician July 1st September 30th**

Took care of a strawberry farm including managing an automated irrigation system and mixing chemical nutrients for the crops. I also helped collect camera visual detection data for autonomous robots and supported researchers during the testing of gesture control on autonomous robots. Lastly, I was responsible for data collection of the picked, packaged, and stored strawberries.

**Hilton Hotel waiter**

Delivered foods to guests, cleared tables, and answered customer questions and requests.

**Waterdales kebab house – Receptionist and assistant chef**

Answered the phone and completed customer orders on their behalf. In one instance I calmed an unsatisfied customer down and resolved the issue, so the customer left happy.

**University of Lincoln International Student ambassador/ Student ambassador**

Gave open day tours, cleared signs, and helped pack up information desks on some days and then, picked up international students from the airport and directed them to their accommodations on others.

**University of Lincoln - Residential Warden/ One community Ambassador**

Ensuring that students get their ID cards on time and answering questions regarding Campus and Accommodation.

Signposting students to the right places for information such as the support centre for financial problems and advice or wellbeing when students need to talk.

**Hobbies**

* Awarded the Mark Evison foundation award for building an amphibious quadcopter.
* Playing the guitar, skateboarding, snowboarding, and longboarding.
* Gymnastics, parkour, and free running.
* Horse riding
* Occasional Climbing
* Making home appliances automated with microprocessors such as an Arduino – one such project was a personalised distance calculator using an ultrasonic sensor and an LCD screen.
* Making occasional educational video on YouTube regarding Arduinos and micro-controllers.