Will Terry

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Personal Statement

I am pursuing an MSc in Robotics and AI at UCL, specializing in sensing, estimation and control systems, and neural networks. Building on the skills I developed during my studies, I combine electronics, programming, and design expertise to work on creative side projects. From customizing a Raspberry Pi to designing a sustainably sourced outdoor canopy, I enjoy applying my education to explore exciting, hands-on solutions.

I document these projects on my website, which I continuously update with new ideas. My passion for blending technical expertise with creative thinking drives my aspiration to work in product development, where I can contribute to designing accessible and impactful creations. I am eager to bring my skills and innovative mindset into the professional world, tackling real-world challenges and enhancing user experiences.

Education

University of Leeds, BEng Robotics and Mechatronics   Sept 2020 – June 2023

- Grade: Upper Second Class
- **Modules:** Intelligent Systems and Robotics, Machine Learning, Artificial Intelligence, Embedded Systems, Microprocessors and Programmable Logic, Electric Machines, Electronic Circuit Design, Sensors - Actuators and Mechanisms, Additive Manufacturing

Deeplearning.ai | Stanford Online, Machine Learning Specialization   April 2024 – June 2024

- Grade: Passed
- **Modules:** Supervised Machine Learning: Regression and Classification, Advanced Learning Algorithms, Unsupervised Learning, Recommenders nad Reinforcement Learning

University College London, MSc Robotics and AI   Sept 2024 – Sept 2025

- Grade: TBA
- **Modules:** Computer Vision, Estimation and Control, Modeling and Motion Planning, Introduction to Machine Learning, Aerial Robotics, Object Detection and Classification, Robot Vision and Navigation, Robotic Sensing Manipulation and Interaction

Experience

Product Management Intern, Edwards Vacuum   June 2024 – Sept 2024

- Created a company wide product configurator which reached global branches.
- Helped develop graduate on boarding process with management.
- President of Vacuum Chamber Solutions acknowledged my contributions. Contract extended by 2 weeks based on performance.

Notable Projects

I'd like to preface this section with by saying that it will only include notable projects throughout the course of my time at university. Have a look at my website for more information on these projects and more.

TurtleBot Navigation and Picture Recognition

- Programmed a TurtleBot using ROS1 to autonomously navigate a maze, identify colored doors using the OpenCV library, and identify a specific Cluedo character using Harris Corner Detection.
- Gained foundational experience in ROS1, which enabled further exploration and mastery of ROS2 for advanced robotics projects.
- Tools Used: ROS1, OpenCV, Harris Corner Detection, Python

Interactive Stability Training Game for Elderly Fall Prevention

- Developed a game using Unreal Engine 4 and Xbox Kinect to map a player's in-game character to their real-life movements, promoting daily engagement to strengthen stability muscles and reduce fall risk in elderly individuals.
- Conducted accuracy testing with a Vicon motion capture system to evaluate and validate movement mapping and system reliability.
- Tools Used: Unreal Engine 4, Xbox Kinect, Vicon Motion Capture, C++

Raspberry Pi Retro Gaming Console

- Designed and built a retro gaming console using a Raspberry Pi and a modified RetroPie OS, adding classic games like Pokémon Red and Pokémon Emerald for a nostalgic user experience.
- Constructed a custom case with cooling features, a USB slot for controllers, and GPIO-connected buttons for volume control, power, and reset functionality.
- Enhanced Linux proficiency by configuring the system via the command line, modifying system files, and setting up the gaming environment manually.
- Tools Used: Raspberry Pi, RetroPie OS, GPIO, Python, Linux Command Line

Skills

Languages: C++, C, Python

Technologies: Linux, Embedded Systems, Arduino, ROS2, Fusion360

Soft Skills: Posotive Attitude, Hard Working, Time Managment, Relationship Builder, Self Motivation