

# WILL TERRY

## Robotics and Mechatronics Graduate

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## SKILLS

### Hard Skills

Machine Learning

Prototyping

Embedded Systems

Kinematics

C++

ROS

Python

AutoCAD

SolidWorks

Fusion360

MPLabX

### Soft Skills

Positive Attitude

Hard Working

Leadership

Communication

Team Builder

'People Person'

Time Management

## ACHIEVEMENTS

### First Place, Buggy Design Competition

University of Leeds

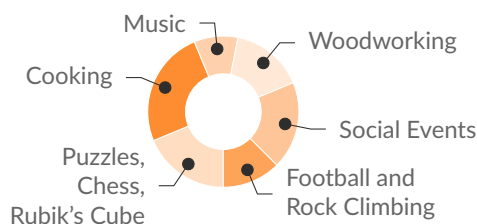
I became the acknowledged natural leader of the team, driving engagement to win first-place prize.

### Cooking Promotion

Oak Hall Care Home

Promotion from Kitchen Porter to Cook through showing aptitude.

## INTERESTS



## REFEREES

### Professor Roger Berry

@ University of Leeds

roger.mc.berry@gmail.com

Woodhouse Lane, Leeds, LS2 9JT

### Mrs Dawn Critchell (Manager)

@ Oak Hall Care Home

dawn.critchell@manorlife.com

Wispers Ln, Haslemere GU27 1AB

## EDUCATION

### University of Leeds

BEng, Robotics and Mechatronics

Sep 2020 - Jun 2023

Leeds

- Upper Second-Class Honours in Robotics and Mechatronics
- Achieved Upper Second for Dissertation project, using Microsoft motion capture technology to build a game that helps with balance rehabilitation
- Modules included: Additive Manufacturing, Electric Machines, Intelligent Systems and Robotics, Machine Learning, Sensors - Actuators and Mechanisms, Microprocessors and Programmable Logic, Embedded Systems, Artificial Intelligence, Electronic Circuit Design
- EDI Representative for School of Electronics

### Godalming College

Maths, Further Maths, Physics, Product Design

Sep 2017 - June 2019

Godalming

A-Level: Maths - A, Product Design - A, Physics - B

AS-Level: Further Maths - B

## PROJECTS

### University of Leeds

BEng, Robotics and Mechatronics

Sep 2020 - Jun 2023

Leeds

Significant projects, all awarded First-Class marks:

- Pinball: We designed a 1/3-scale, laser-cut pinball machine in SolidWorks/AutoCAD. Design - microprocessors and breadboards; code - C++ in MPLabX.
- ROS Autonomous Navigation Bot: The Turtle bot navigates a map and detects Cluedo character images in a room, utilising Python's CV library for recognition and retrieval of character names.
- Nucleo Smart Greenhouse: Detected out-of-range values for temperature, humidity, and light levels; used a joystick mechanism for range adjustments.
- Buggy Project: Led the team to first place in this competition by building strong team engagement, constructing a strong H-bridge buggy to navigate the course.

## WORK EXPERIENCE

### Oak Hall Care Home

Jan 2020 - Jan 2023

Haslemere

Working during my gap year and university breaks, I consistently demonstrated a positive attitude, effective communication, hard work, responsibility, and excellent time management. Responding to work pressures, I worked 10-hour shifts, took on additional responsibilities when needed, and helped colleagues finish on time. I supported my head chef during challenging days by helping to handle his tasks, and always received positive feedback. Progressing from kitchen porter to cooking for fifty residents a night by showing interest and aptitude, I built strong relationships with the team and produced consistently high-quality food by going the extra mile. The work also got me thinking about the many potential applications for robotics in kitchen environments. I gained confidence, took charge of closing the kitchen at the end of the day, and embraced cooking independently.