# Sen Lu

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✉ United Kingdom

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## About me

As an ambitious student specializing in robotics, I am deeply committed to academic excellence. With a diverse set of skills, technical competencies and innovative perspectives, I am prepared to combine my efforts with the strategic vision of the organisation in order to make significant advances in the field of robotics.

## Skills

Ansys

Python(ROS2)

Arduino

SolidWorks

MaLab
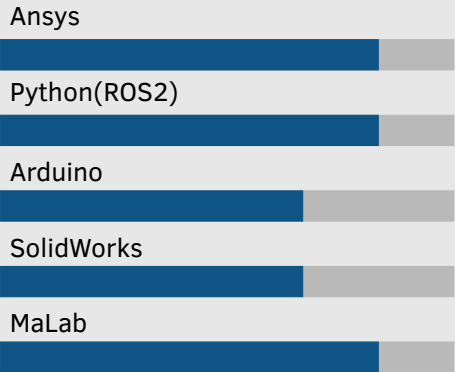
(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

## Education

| 2019-2023 | Bachelor of Engineering, University of Sussex<br>Majoring in Mechanical Engineering with Robotics | Brighton,UK |
| 2023-2024 | Master of Science,University of Manchester<br>Majoring in Robotics | Manchester,UK |

## Awards

| 2022 | Won first prize in an industrial design competition at the University of Sussex |
| 2023 | Received the Best Project Award from the Institution of Engineers, UK |

## Experience

July 2020-August 2020:

Company:China,Qingdao,Qingdao Wangshengyuan Metals Technology Co.

Job title:CAD Design and Drawing

Detail:1.Machining shop operator

2.Used Solidwork to finish high-quality project drawings.

Jun 2022-Aug 2022

Company:China,Shanghai,SF Express

Job title:Intelligent logistics system assistant

Detail:1.Optimize the robot's trajectory and actions through Python programming

2.Participated in the training of express station employees. Taught them how to operate

the robot properly

## Projects

### 1.Gloves designed to help stroke victims recover

Connect the glove to the camera. When a normal person makes an action in front of the camera, the glove will follow the corresponding action.In addition, each finger of the glove also corresponds to a different function, such as turning on the TV, calling the doctor, drinking water, etc., which can encourage patients to move their fingers.

### 2.Leo Rover(Object Detection)

Assembling the Leo Rover robot with my team members. It enables the robot to realize automatic cruising, obstacle avoidance, object detection and object grabbing functions. Among them, I am responsible for the object detection part. By inputting the self-photographed and labeled data sets into the yolov5 model for training, the model can then identify the shape, color and position of the object relative to the camera, which provides the basis for the manipulator to accurately grasp objects.