

Julian Ing

Robotics Engineer



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Key Skills

- **Problem solving** - Quick to find alternative solutions when confronted with obstacles
- **Adaptability** - Able to rapidly devise working products in previously unknown fields
- **Great teamworking** - Through collaborations with other businesses and leading several group projects at university
- **Process improvement** - Wealth of experience streamlining operational processes to be as efficient as possible
- **Entrepreneurial** - Established my own profitable business and constantly looking for new business opportunities
- **Interpersonal skills** - Managing customer relationships for over five years
- **Bilingual** - Fluent in French speaking, reading and writing

Proficient in

- ROS + ROS2
- Python
- Solidworks
- Machine learning/ Neural networks
- Kinematics
- Signal processing
- Autonomous + robotic system design
- Problem anticipation
- Technical writing
- Critical thinking
- Project management

Confident with

- C++
- Embedded systems
- Sensor integration
- Power electronics
- Control systems
- Altium
- Computer vision
- Matlab/Simscape/Simulink

Interests

- Actively engaged in exploring advancements in Robotics, Brain-Computer Interfaces, and Aerospace, through regular reading, podcasts, and attending live talks
- Nature, Hiking, Philosophical debate

Profile

- Dedicated, astute, and effective.
- Incredibly passionate about the advancement of technology, particularly within the fields of robotics and bioengineering.
- Driven to push the boundaries of human potential by integrating biology with technology, whether through direct augmentation or by advancing robotics to become an active part of society
- Proven ability to rapidly acquire new skills and implement complex systems
- Practical experience in a wide range of robotic disciplines
- My continued success during my studies has refined my excellent problem solving skills, effective analytical abilities, and a competence in adapting to any environment or task.
- Lead several projects, gaining great experience in working with a multidisciplinary team.
- I maintain a logical, and down-to-earth approach to life

Education

- **Imperial** / Meng Human and biological robotics
October 2023 / October 2024
Awarded Master of science with merit, and a distinction for my masters thesis
- **Middlesex University** / Beng Robotics
September 2019 / June 2022
Achieved a first with honours degree classification
- **Richmond College** / Electronic and Electrical Engineering
September 2017 / June 2019
Achieved D*DD NVQ level 3
- **Coombe Boys School**
September 2013 / June 2017
Achieved 11 A*-C

Projects

- **Dual thumb anthropomorphic robotic hand for advanced dexterity**
ROS, Python, Solidworks, Kinematics, Rapid prototyping, Project management, Autonomous + robotic system design, Embedded systems.
Developed a novel robotic hand (Bi-TILDA) to enhance dexterity, grasp stability, and manipulation capabilities, demonstrating significant improvements in workspace reach and complex manipulation tasks compared to traditional anthropomorphic designs.
- **EEG motor imagery control of a robotic manipulator**
Python, Neural Networks, Signal Processing
Devised and implemented a brain-computer interface to control a UR10 robotic arm with imagined hand movements, captured from the motor cortex.
- **Motorised augmentation for manual wheelchair**
Embedded systems, Rapid Prototyping, Human centered design, Power electronics.
Repurposed e-scooter parts to create a convertible wheelchair attachment with an accessible control interface.
- **Uno! opponent software**
Computer vision, Neural networks, Python
Devised a CNN to identify Uno cards and play appropriate moves according to its deck.

Experience

- **Middlesex University** / Student Learning Assistant
September 2021 - September 2022
Due to my exceptional performance, I was asked to be a teaching assistant for the year below's robotics and mechatronics module. I Assisted in technical tutoring.
- **Seraph Clothing Ltd.** / Chief Executive Director
March 2020 - October 2024
Meticulously managed all aspects of the business, from customer liaison to regulatory compliance.