



Cormac McCumiskey
General Engineering
Specialised in Mechanical Engineering
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EDUCATION

- **Durham University** 2024
MEng General Engineering Predicted Classification: 2:1
- **Aquinas Grammar School** 2019
CCEA, Belfast 2A* 2A
- **Aquinas Grammar School** 2017
CCEA, Belfast 9A* 1A

EXPERIENCE

- **Let's Go Hydro** June to October 2021
Accommodation Assistant Carryduff
 - Responsible for carrying out day to day operations in the accommodation department.
 - Developed client centred attention to detail and communication skills.
- **Sainsburys** June 2019 to September 2020
Cafe and Checkout Operations Belfast
 - Responsible for assisting customers, handling cash, taking orders.
 - Developed teamwork skills and worked effectively under pressure.

UNIVERSITY PROJECTS

- **MEng Capstone Project: Generalisable CFD using Machine Learning.** October 2023 to March 2024
Using CFD data to predict the velocity vectors at every point in a room to less than 5% error.
 - Tools & technologies used: Python, Tensorflow, Excel, Solidworks, Ansys
 - I developed and validated an generalisable deep-learning model that can replicate Computational Fluid Dynamics Simulations to less than 5% error.
- **3rd Year Design: Adjustable Buoyancy Seaweed farm** October 2022 to March 2023
I designed a new system for seaweed farming. My contribution was awarded 75% (1st class).
 - Tools & technologies used: Latex, Solidworks, Excel
 - I collaborated with researchers in the field of seaweed aquaculture to certify that my design interventions were realistic methods of improving seaweed yield. I helped to develop the design using software packages such as solidworks and developed and pitched a business plan for selling seaweed farming equipment.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, C++, Matlab, HTML, CSS, Javascript
Developer Tools: Scikit-Learn, XGBoost, Anaconda, Fast.ai
Frameworks: Tensorflow, Keras
Areas of Interest: Computer-Vision, LLM, Fluid-Dynamics, Energy

POSITIONS OF RESPONSIBILITY

- **Co-Captain & Novice Captain,** Stephenson College Boat Club 2021-2023
 - I co-captained my College boat club for the 2021-2022 season which saw the college rise from the 16th to 3rd ranked college in Durham University. I became the novice-captain for the 2022-23 season to nurture young talent and to guarantee the future success of the club.

ACHIEVEMENTS

- **NI Young Engineer of The Year Award:** I developed a novel safety device 2017
- **2nd Ironman Cork:** 18-24 Age-Group. August 2022