

# Finn O'Connor

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*Master of Mechanical Engineering student with a keen interest in the energy industry.*

## EDUCATION

### Trinity College Dublin - The University of Dublin

Dublin, Ireland

*M.Eng, MAI (Hons) Master of Mechanical Engineering*

*Sept 2022 – May 2027*

- **Relevant Coursework Topics:** Engineering Mathematics 1–5, Probability and Statistics, Computational Science, Thermodynamics, Heat Transfer, Fluid Mechanics 1 & 2, Mechanics of Solids, Mechanical Materials, Multibody Dynamics, Mechanics of Machines, Signals and Systems, Computer Engineering, Electronics, Computer Aided Design, Universal Design Innovation, Research Methods, Management for Engineers
- **Activities and Societies:** Trinity Student Managed Fund, Formula Trinity, DUFC (Trinity Rugby), EngSoc

## PORTFOLIO OF PERSONAL PROJECTS AND COURSEWORK

You can view some a portfolio of some of my projects via the following link: [finn0connor.github.io/finn0connor\\_portfolio](https://finn0connor.github.io/finn0connor_portfolio)

## EXPERIENCE

### ElectroRoute

Jan 2026 – Present

*Energy Trading Intern*

*Dublin, Ireland*

- I am currently on industrial placement with ElectroRoute, an independent energy trading company.
- Developing skills in Python and data analysis, while learning about energy markets and how they are traded.

### HappyStack

Oct 2025 – Present

*Intern*

*Dublin, Ireland*

- HappyStack is a startup that helps e-commerce brands grow through software, data analytics, and marketing.
- The internship programme allows me to gain exposure to the ecom industry, and develop my skills creating tech stacks and doing data analysis.

### Kirby Group Engineering

May 2025 – Aug 2025

*Mechanical Engineering Intern*

*Dublin, Ireland*

- Contributed to the development of AstraZeneca Alexion's new pharmaceutical manufacturing facility.
- Prepared and revised pipe network designs, and produced redlines, isometrics, and P&IDs for client submission.
- Applied knowledge in fluid mechanics, thermodynamics, and CAD and built skills in Excel, Revit, and BlueBeam.

### Formula Trinity

Oct 2024 – Sep 2025

*Drivetrain Engineer*

*Dublin, Ireland*

- Designed and simulated drivetrain components using SolidWorks and Ansys for Trinity's Formula Student team.

### Trinity Student Managed Fund

Feb 2023 – Apr 2025

*Quantitative Trader, Macroeconomic Analyst, Basic Materials Analyst*

*Dublin, Ireland*

- Helped design systematic trading strategies in Python & MATLAB, backtested with market APIs.

### Susquehanna International Group (SIG), LLP.

Feb 2024

*Spring Insight Participant*

*Dublin, Ireland*

- Gained exposure to proprietary trading, options market making, and SIG's probabilistic decision-making methods.

## ACHIEVEMENTS, SKILLS & OTHER

**Achievements & Leadership:** Castleknock College Deputy School Captain (2022), Valedictory Speech (2022), Bologna Marathon Finisher (2025), Trinity Rugby DUFC First XV, RIAM Grade 6 Pianist.

**Skills:** CAD, CFD, FEA, Programming, Data Analysis, Advanced Mathematics, Teamwork, Communication, Spanish.

**Platforms:** MATLAB, C++, Python, Excel, SolidWorks, ANSYS, Arduino, MADYMO.

**Certificates:** Python & Machine Learning for Financial Analysis, MATLAB Onramp, Bloomberg Market Concepts, Certified SolidWorks Associate, European Computer Driving Licence.

**Part-time Work:** Mathematics tutor, bartender in USA and France, stadium steward, construction labourer.

**Interests:** Running, rugby, golf, piano, saxophone, acrylic painting, Formula 1, geopolitics, energy economics.