

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

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

Dublin, Ireland

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

EXPERIENCE

ElectroRoute

Energy Trading Intern

Jan 2026 – Present

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

Intern

Oct 2025 – Present

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

Mechanical Engineering Intern

May 2025 – Aug 2025

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

Drivetrain Engineer

Oct 2024 – Sep 2025

Dublin, Ireland

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

Trinity Student Managed Fund

Quantitative Trader, Macroeconomic Analyst, Basic Materials Analyst

Feb 2023 – Apr 2025

Dublin, Ireland

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

Susquehanna International Group (SIG), LLP.

Spring Insight Participant

Feb 2024

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.