Finn O'Connor

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Master of Mechanical Engineering student with a passion for 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/finnoconnor_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   Jan 2026 – 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.