Finn O'Connor

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Master of Mechanical Engineering student seeking an internship with Javelin Global Commodities.

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, Materials Science, Fluid Mechanics, Thermodynamics, Heat Transfer, Signals and Systems, Multibody Dynamics, Mechanics of Solids, Research Methods, Electronics, Computer Engineering, Management for Engineers
- **Activities and Societies:** Trinity Student Managed Fund, Formula Triniy, DUFC (Trinity Rugby), EngSoc

PORTFOLIO OF PERSONAL PROJECTS AND COURSEWORK

You can view some of my personal and coursework projects here: [Finn O'Connor Portfolio](#)

Projects Include: Autonomous Driving Buggy, Arduino-Based Cyclist Protection System, F1 Front Wing CFD Analysis, MATLAB Kinematic Pumpjack Simulation, AI Chatbot Startup, UK Spark-Spread Energy Trading Simulation.

ENGINEERING EXPERIENCE

Kirby Group Engineering — May 2025 – August 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 – Present

Drivetrain Engineer — *Dublin, Ireland*

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

OTHER RELEVANT EXPERIENCE

Trinity Student Managed Fund — Feb 2023 – Present

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.

ElectroRoute — Jan 2026

Energy Trading Intern — *Dublin, Ireland*

- I have signed a 6-month contract to join ElectroRoute in January 2026 as an Energy Trading Intern.

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.