

# Edward Middleton-Smith

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UK Citizen – open to relocation

<https://teddy.org.uk/>

## Education

### University of Nottingham

#### MEng Hons Mechanical Engineering (1st class)

**MEng Individual Project (1st)** – Additive manufacturing of metal nanoparticles for flexible pressure sensors in artificial skins for prosthetics and soft robotics

### Lawrence Sheriff School

**BTEC:** Level 3 Extended Certificate: Engineering (Distinction\*)

**A Levels:** Mathematics (A\*), Further mathematics (A\*), Computer science (A), Physics (B)

**AS Level:** Additional further mathematics (A)

**GCSE's:** Further mathematics (A<sup>+</sup>), 4x (A\*), 5x (A), 2x (B)

## Employment History

### Full-Stack software engineer at Precision And Research Technology Systems Ltd 08/2021 - present

- Improved ROI by 30% through implementing a fraud-preventing process, and enforcement software system, for a 9-figure engineering development budget, using C#, SQL Server, and RESTful APIs
- Decreased query execution time by 90% for a system accessed millions of times daily by optimising the PostgreSQL database schema and queries
- Optimised interdepartmental processes, software, and data systems to save tens of annual work units
- Designed an integrated e-commerce platform with custom ERP software for automated order management across multiple retail marketplaces and supplier networks using Python, Flask, and MySQL
- Executed rapid response to CrowdStrike incident to minimise downtime and profit loss
- Crafted interactive modules for monthly training of analysts on task automation using best practices
- Automated investment analysis with machine learning for market prices and AI for news sentiment

### Software & systems engineer at 4 Shires Builders Merchants LLP 05/2019 – 09/2022

- Implemented TDD and CI/CD best practices and coding standards with Jenkins and Mocha and Chai
- Increased web presence by 2000% and visitor to sale conversion by 9000% with a new, containerised e-commerce site and social media marketing campaign
- Improved delivery rate by 20% and fuel efficiency by 30% by restructuring delivery logistics

### Sales assistant at 4 Shires Builders Merchants LLP 06/2016 – 04/2019

- Cultivated longstanding business relationships and customer service satisfaction
- Analysed product and segment profitability, and opportunities for cross-selling and upselling
- Engineered storage systems and reorganised warehouse for over 60% greater stock capacity

### GCSE-MSc STEM Tutor 03/2016 – 09/2021

- Adopted nuanced techniques for diverse personalities and learning styles

### Work experience in Systems Analysis at Cummins Inc., Daventry 07/2016

- Programmed and presented a structural optimisation method for a steel I-beam crane boom

## Technical Skills

**Programming:** bash, batch, C, C++, C#, CSS, HTML, Java, JavaScript, MariaDB, MATLAB, MS SQL Server, MySQL, OpenSCAD, PostgreSQL, Power FX, Power Query, Python, TypeScript, VB.NET, and VBA

**Frameworks:** ASP, Basilisk, Bootstrap, Chai, Django, ERPNext, Flask, Hugging Face, Jenkins, jQuery, Linq, Mocha, MVC, Node.js, Ollama, Qt, React, selenium, Sinon, tomcat, WooCommerce, and WordPress

**Software:** Dynamics 365, IntelliJ, LLMs (ChatGPT), Power Platform, Sage, SAP, Tableau, and Visual Studio

**Cloud & DevOps:** AWS, Azure, Docker, Git, Gitea, GitHub, Google Cloud, IIS, Kubernetes, and TFS

**Languages:** Fluent English, C1 braille and German and A2 French, Klingon, Mandarin, Russian, and Spanish