

# Edward Middleton-Smith

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UK Citizen – open to relocation

teddy.org.uk

## Education

**University of Nottingham** 2018 – 2022

**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** 2011 - 2018

**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

**Director** at Precision And Research Technology Systems Limited 08/2021 - present

- Improved ROI by 30% through implementing a fraud-preventing process and enforcement software system for a 9-figure engineering development budget
- Decreased query execution time by 90% for a system accessed millions of times daily by changing to a non-clustered key and a more optimal clustered index on fields used by important queries
- Optimised 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 RESTful APIs
- Executed rapid response to CrowdStrike incident to minimise downtime and profit loss
- Crafted monthly interactive training modules for analysts on task automation using best practices
- Created investment advice software for AI and fractal analysis of live financial markets and news

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

- Increased web presence by 2000% and visitor to sale conversion by 9000% with a new e-commerce site, SEO, and a social media marketing campaign
- Improved delivery rate by 20% and fuel efficiency by 30% by restructuring delivery logistics
- Analysed product and segment profitability, and opportunities for cross-selling and upselling

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

- Cultivated longstanding business relationships and customer service satisfaction
- 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

**Languages:** 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

**Libraries and Frameworks:** ASP, Basilisk, Bootstrap, Chai, Django, Firebase, Flask, jQuery, Kubernetes, Linq, Mocha, MVC, Node.js, Qt, React, selenium, Sinon, TFS, and tomcat

**Software:** ANSYS, Cura, Dynamics 365, Git, Docker, Google Cloud Platform, IIS, IntelliJ, LLMs (ChatGPT), Power Platform, Sage50, SAP, Simulink, SOLIDWORKS, Tableau, and Visual Studio

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