

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⁺), 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
- Decreased query execution time by 90% for a system accessed millions of times daily by optimising the database schema and queries
- Decreased query execution time by 90% for a system accessed millions of times daily by optimising
- 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, Google Cloud Platform, 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: Fluent English, C1 braille and German and A2 French, Klingon, Mandarin, Russian, and Spanish