SHAUN BROOMFIELD

Software Engineer

Hartlepool, England

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ShaunBroomfield.com

ShaunBroomfield

Broomfields

WHO AM I?

I'm a full-stack Software Engineer with a predominant background in developing SCADA software for the Windows operating system. My deep-rooted expertise is within the Microsoft ecosystem, leveraging tools like C, C++, C++/CLI, SQL Server, MFC, and .NET Framework.

Currently, my professional role involves crafting a SCADA software product that embodies a Micro-Services-like architecture on the Windows platform. This sophisticated system comprises hundreds of intertwined programs, drivers, and services that synchronise seamlessly. Their collaboration relies on data-modules, queues, stacks, pools, and an integration of both relational and in-house non-relational databases, ultimately furnishing a comprehensive SCADA solution across one or multiple Windows machines.

Outside of work I like to explore and experiment with different development technologies. This includes an interest in, but not limited to, systems level languages, app development, robotics, embedded systems, graphics programming, physics programming, and other related computing arenas.

CAREER

1/2020 – Present
3 Years 8 Months

Software Engineer   **Tascomp Limited**
Billingham, England, United Kingdom

◆ Led improvements to the company's MFC-Dialogue-based IDE for 'SLANG,' incorporating vital features such as undo/redo and source control.

◆ Managed end-to-end processes for key SCADA interface applications and internal tools, from conception to documentation.

◆ Engineered bespoke full-stack applications, using MFC-based C++ and .NET Framework's Windows Forms, tailored for compatibility within the company's micro-service architecture.

◆ Crafted specialised MFC-based C++ drivers to enhance large SCADA systems.

◆ Conducted comprehensive pre-FAT tests for airport SCADA systems, contributing to essential documentation.

◆ Extended the 'SLANG' language by developing multiple 'SLANG Extensions' through MFC-based C++.

6/2019 – 1/2020
8 Months

Apprentice Software Engineer

◆ Enhanced system security by updating and replacing a crucial 'C' file decryption library.

◆ Developed innovative SCADA solutions through procedural finite-state-machine strategies using the 'SLANG' domain language.

◆ Created tailored MFC-based C++ solutions for the Windows platform, optimised for compatibility with our micro-service architecture.

◆ Assembled and configured Windows PC systems to meet varied customer requirements.

tascomp.com   Tascomp Limited

2/2019 – 4/2019	**Apprentice Web Developer**	**Admit Me**
2 Months	Middlesbrough, England, United Kingdom	

- ◆ Facilitated online commerce expansion by building a detailed product database for a client's Pet Store:
    - ❖ Integrated and harmonised data from various sources through web scraping, culminating in a unified Postgres database.
    - ❖ Utilised Ruby-On-Rails and Bootstrap to ensure a seamless user experience while navigating the database.
- ◆ Applied Ruby-On-Rails and Bootstrap skills to create user-friendly web forms for the company's music event ticketing platform.

■ No contact information as the company no longer exists.

7/2018 – 1/2019	**Apprentice Software Engineer**	**Labman Automation**
7 Months	Seamer, England, United Kingdom	

- ◆ Contributed to improving internal IT operations for enhanced efficiency.
- ◆ Played a key role in the development of a unique medicinal fabrication system:
    - ❖ Applied knowledge of Beckhoff IPC Programming in Structured Text and Ladder Logic, ensuring seamless communication with a spectrometer via Modbus TCP/IP.
    - ❖ Designed MySQL Stored Procedures optimised for concurrent C++ development in the project.

🌐 labmanautomation.com   in Labman-Automation-Ltd
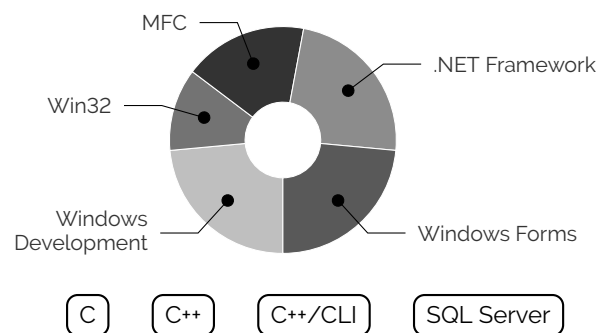
FORMS OF WORK

When it comes to where I work, I'm open to working in an office, working from home, or a bit of both.

[Office] [Hybrid] [Remote]

PROFESSIONAL DEVELOPMENT EXPERIENCE

MFC
.NET Framework
Win32
Windows Forms
Windows Development

[C] [C++] [C++/CLI] [SQL Server]

EDUCATION

9/2022 – 9/2025	**Bachelor's Degree Apprenticeship in Computer Software Engineering** ✱ In Progress	**Teesside University**
12/2018 – 12/2020	**C&G Level 3 Diploma in ICT Professional Competence** Computer Software Engineering	**Middlesbrough College**
7/2016	**Royal Institution Engineering Masterclasses**	**The Royal Institution**

CERTIFICATES

12/2019	**Certificate of Unit Credit Towards Level 3 in ICT Systems and Principles**	**City & Guilds**
12/2019	**Level 3 Certificate in ICT Systems and Principles**	**City & Guilds**
12/2019	**Certificate of Unit Credit Towards Level 3 Diploma in ICT Professional Competence**	**City & Guilds**
12/2019	**Level 3 Diploma in ICT Professional Competence**	**City & Guilds**
12/2019	**Level 3 Diploma in ICT Professional Competence**	**City & Guilds**

REFERENCES

Ashley Tizard — **Managing Director** — **Tascomp Limited**
@ ashley.tizard@tascomp.com in Ashley-Tizard

Steven Tilly — **Lead Software Development Engineer** — **Tascomp Limited**
@ steven.tilly@tascomp.com in Steven-Tilly-8282141a

George Priestner — **Senior Software Engineer** — **Eaton**
@ georgespriestner@eaton.com in George-P-5aa9385a

Rhys Maddren — **Graduate Developer** — **Sage**
@ rhys.maddren@sage.com in Rhys-Maddren-133a7b151