

SHAUN BROOMFIELD

Software Engineer

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in 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

Billingham, England, United Kingdom

Tascomp Limited

- ◆ Spearheaded the maintenance and enhancement of the company's MFC-Dialogue-based IDE for the domain language 'SLANG', notably integrating undo/redo and source control features.
- ◆ Orchestrated the design, development, testing, and documentation of key user-facing SCADA interface applications and several full-stack internal tools.
- ◆ Developed numerous bespoke full-stack applications using MFC-based C++ and .NET Framework's Windows Forms for the front-end, tailored to client needs within the company's micro-service architected SCADA product on the Windows platform.
- ◆ Formulated custom MFC-based C++ drivers to complement large SCADA systems.
- ◆ Conducted rigorous and documented pre-FAT tests for airport SCADA systems, playing a pivotal role in crafting some of their accompanying documentation.
- ◆ Pioneered several 'SLANG Extensions', leveraging MFC-based C++ to enrich the 'SLANG' language with standard library functions.

6/2019 – 1/2020
8 Months

Apprentice Software Engineer

- ◆ Rectified a critical vulnerability by writing an iteration of a core 'C' file decryption library and deprecating the former.
- ◆ Conceptualised and implemented state-of-the-art SCADA solutions, utilising procedural finite-state-machine driven approaches in the 'SLANG' domain language.
- ◆ Produced bespoke MFC-based C++ front-end and back-end solutions for the Windows platform, ensuring integration with our micro-service architecture.
- ◆ Assembled and configured Windows PC systems for diverse customer needs.



tascomp.com



Tascomp Limited

2/2019 – 4/2019
2 Months

Apprentice Web Developer
Middlesbrough, England, United Kingdom

Admit Me

- ◆ Drove online commerce growth by populating a comprehensive product database for a client's Pet Store:
 - ❖ Streamlined data by web scraping multiple specified sources and integrating into a centralised Postgres database.
 - ❖ Employed Ruby-On-Rails in conjunction with Bootstrap to present database content seamlessly.
- ◆ Harnessed Ruby-On-Rails and Bootstrap expertise to devise intuitive web forms for the company's music event ticketing platform.

■ No contact information as the company no longer exists.

7/2018 – 1/2019
7 Months

Apprentice Software Engineer
Seamer, England, United Kingdom

Labman Automation

- ◆ Facilitated a range of internal IT operations, enhancing system efficiency.
- ◆ Collaborated on a cutting-edge and bespoke medicinal fabrication system:
 - ❖ Delved into Beckhoff IPC Programming using Structured Text and Ladder Logic to communicate with an OceanOptics spectrometer over Modbus TCP/IP.
 - ❖ Crafted efficient MySQL Stored Procedures to be utilised by concurrent C++ development on the same project.



labmanautomation.com



Labman-Automation-Ltd

LANGUAGES

English - native

FORMS OF WORK

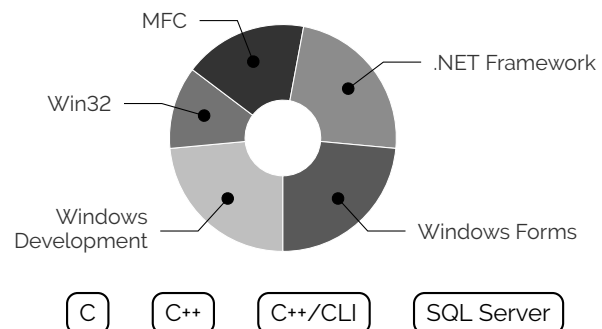
Office

Hybrid

Remote

When it comes to where I work, I don't mind working in an office, working from home, or a bit of both.

PROFESSIONAL DEVELOPMENT EXPERIENCE











EDUCATION

9/2022 – 9/2025	Bachelor's Degree 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	 Ashley-Tizard
Steven Tilly	Lead Software Development Engineer	Tascomp Limited
	 steven.tilly@tascomp.com	 Steven-Tilly-8282141a
George Priestner	Senior Software Engineer	Eaton
	 georgespriestner@eaton.com	 George-P-5aa9385a
Rhys Maddren	Graduate Developer	Sage
	 rhys.maddren@sage.com	 Rhys-Maddren-133a7b151