

Stefan Vučković

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EDUCATION

Glasgow University - Class of 2026 (Pred. 1st Class)

MEEng Electronics and Software Engineering

Glasgow, Scotland

Sept. 2021 – May 2026

EXPERIENCE

Embedded Software Engineer (Master's Project) – Thales UK

Jun 2025. – Dec. 2025

- Master's Project Title: *Optimisation of Servo Controllers and Software-In-Loop on Constrained Microcontrollers*
- Reduced runtime of primary test/verification tool of control systems by **99.4% (167x improvement)**
- Optimised both **code generation** and generated C++ code, **reducing CPU usage by 38%** on average, bringing multiple systems within operational constraints.

Software Engineering Intern – Integrated Environmental Solutions Inc

Jun. 2024 – Jun. 2025

- Became **Team DevOps Architect**, responsible for developing and maintaining automated build processes as part of the Core Simulation team, improving overall efficiency.
- Engineered shell scripts and automated **pipelines** that reduced time spent on build processes by **80%**, saving approximately **364 developer hours** per developer annually.
- Extended core testing tools in C++ and Python and performed unit, integration, and regression **testing** on internal packages to ensure consistent software quality

Freelance Software Engineer – Vectofy (Orange Matter Ltd)

Oct. 2023 – Mar. 2024

- Created an Excel Add-in using **.NET & TypeScript** to help finance industry companies onboard new employees efficiently, reportedly **cutting down onboarding time by up to 90%**.
- Led 7 developers as Scrum Master, and System Architect** in development of a full-stack web application for data visualisation, dependency management.
- Worked with **DevOps**, integrating **CI/CD pipelines**, ensuring consistent deployment using **React** and **.NET**

OTHER ROLES: Software Developer - 3 additional positions, Graduate Teaching Assistant - Uni of Glasgow

PERSONAL PROJECTS

UGRacing: Embedded IoT Telemetry System | [Github](#) | C, C++, Embedded, IoT, Terraform

Sept 2025

- Architected **end-to-end telemetry pipeline** achieving **sub-500ms latency** from racecar sensors via Arduino and LTE-M cellular connectivity, for real-time vehicle dynamics analysis
- Enabled **live track-side diagnostics** for vehicle dynamics for all future test sessions
- Automated cloud infrastructure deployment** with Terraform across custom provider, including handover documentation that enabled non-technical team members to provision environments independently

Drone Swarm Simulation Software | [Video](#) | Distributed Systems, Simulation, Collision Avoidance

Mar 2025

- Working on a research paper on **distributed drone-swarm** logic to autonomously forms complex 2D/3D shapes.
- Built a **real-time simulation framework** to rigorously verify advanced collision-avoidance algorithms.
- Optimised performance to support smooth, large-swarm simulations on commodity hardware.

TECHNICAL SKILLS

Programming Languages: Python, C++, Powershell, Bash, TypeScript, JavaScript, Golang, C, Java, Rust, Elixir

Frameworks: AzDev, CMake, Conan, React-Native, React, PyTorch, CUDA, Plotly, Dash, Arduino, Simulink, Pheonix

Languages: English (Fluent), Serbian (Fluent), German (Intermediate)

ACHIEVEMENTS

DYHTG Glasgow University Hackathon

Winner 2025, Winner 2022, Honourable Mention 2023

Formula Student UK Concept Overall Winner

Team Member, 2024

British Team Maths Challenge

National Finalist, 2020

Arkwright Engineering Scholarship

Recipient, 2021

Engineering Excellence Award

Recipient, 2024, 2025

STRENGTHS

Problem Solving, Agile Development, Embedded Systems. System Architecture, Motivator & Leader, Public Speaker