

Samuel Preston

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Passions

- Open Source Software
- Golf
- Tennis
- Developer Experience

SUMMARY

Creative, diligent, and pioneering engineer looking for new challenges to solve. After 5+ years in the automotive sector working on in-house software, **saving £1 million per year**, I leveraged modern technologies and advancements as well as actively contributing back into the community. I secured a 2:1 at the **University of Warwick** while working full time at Jaguar Land Rover, while doing so I was ensuring the **latest standards** were being adhered to by implementing software configuration tracking across **£20+ million worth in assets**.

TECHNICAL EXPERIENCE

Jaguar Land Rover

Jan 2021 - Present

Framework Developer

Warwickshire, UK

- **Ideated, architected, and lead the development** of in-house software across multiple domains, taking direct customer feedback and iterating on the product. This required communications to **non-technical stakeholders** throughout the senior management for the local domain.
- Using the regulations for automotive diagnostics, I was able to develop internal tooling based around my own developed **open-source libraries**. This allowed for the implementation of parallel communication with embedded systems within vehicles with **Rust**, during which I utilised matrix CI/CD jobs to build the binary for multiple targets and publish these along with generated release notes.
- I have **pioneered** the use of the **Rust programming language** within JLR, assisting with those **junior and senior** to understand its benefits and where it can be most valuable within our toolchains. This has already led to the delivery of products of which are able to provide **£1 million** in savings per year.

Jaguar Land Rover

Sep 2018 – Jan 2021

Vehicle in the Loop Engineer

Warwickshire, UK

- **Lead the delivery** of new capabilities by interfacing with research centers such as **National Automotive Innovation Center** (NAIC) and JLR Whitley, to implement **electronics and microcontrollers**.
- Delivered crucial projects to **remotely control components** within the car to perform **end-to-end consumer faced testing**
- Supported the **rapid growth** of the team from 2 to 10 testing rigs, **increasing the testing capacity** of Level 5 in the loop rigs within the business. During this I also took ownership of the **maintenance and bug tracking** to ensure as the team scaled we didn't face unmanageable systems.

EXTRACURRICULAR

Open Source Contribution

April 2024 - Present

Rust - DoIP Definitions - DoIP Codec - Safety Critical Rust Consortium

- Develop and maintain libraries to support **automotive embedded development** with Rust. Utilising common and **best practices**, I was able to quickly gather **interest from others** to contribute towards a goal of combined specialisation.
- Supported JLR within the **Safety Critical Rust Consortium** to ensure JLR is aware of the progress made towards safety critical Rust, and assessing that JLR explores the latest technologies.

Coaching and Skills

Learning Development Network

- Signed up for Coaching the Coach, in which I learnt how to give space to colleagues whether junior or senior to open up with some quandry, **supporting colleagues** to reach a decision using coaching tools and techniques.
- **Ambitious**, I strive for myself and JLR to always think and assess what can be improved. I exercise this through reaching out to colleagues to communicate ideas and following through to ensure new ideas are heard.
- **User obsessed**, I make sure the user voices are heard to drive products with certainty of return on investment. This creates an efficiency in which there is products with pure value-added which **customers love**.
- The culmination of these skills support a sense of **unity** within a team and the relationship users have with a team. All-the-while ensuring the team delivers the most **impactful products**, maintaining value and personal **growth** within the squad.