

WILLIAM SMITH

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[LinkedIn](#)

[Github](#)

[Portfolio](#)

Software Engineer with a background in Control Systems Engineering who is passionate about creating high performance and user-friendly applications by writing efficient, testable, and maintainable code.

SKILLS

React | HTML | CSS | JavaScript | Bootstrap | Material UI | SASS | Adobe XD | Node.js | Express.js | MongoDB | Jest | Mocha | Chai | Github | Full-Stack Development | MVC Design | Test Driven Development (TDD) | Object Oriented Programming (OOP) | RESTful API | Data Structures | Algorithms | UI/UX

PERSONAL PROJECTS

Prestige Auto | [Visit Site](#) | [See Code](#)

A responsive full-stack application created with MongoDB, Express.js, React & Node (MERN Stack).

- Optimized the application design to increase the overall performance of the application.
- Integrated Cloudinary API for upload and display of images.
- Developed a user-tested responsive front end using React and React Hooks.
- Encrypted passwords using bcrypt and managed authentication and authorization using JWT tokens.

INTERNATIONAL SPACE STATION TRACKER | [Visit Site](#) | [See Code](#)

A responsive website created with React & Open-Notify API.

- Developed a user-tested responsive front end using React and React Hooks.
- Utilized Open-Notify API to retrieve relevant data from the International Space Station.
- Integrated Leaflet to display the current position of the International Space Station.

RELEVANT WORK EXPERIENCE

FREELANCE DEVELOPER | Self-Employed

(04/2020) – Present

- Plan and improve website layouts, user interface, and user experience.
- Create responsive websites using HTML, CSS & JavaScript.
- Deploy websites and manage hosting.

CONTROL SYSTEMS ENGINEER | Integ System Integrators, Cape Town - South Africa

(07/2019) – (04/2020)

- Designed and implemented control system architectures to achieve maximum safety, efficiency, and scalability.
- Programmed, tested, and commissioned various PLC-based control systems for optimal control and efficiency.
- Developed, tested, and deployed Human-Machine-Interface (HMI) software using user-friendly graphics.

AUTOMATION CONTROL SYSTEMS ENGINEER | Merck, Carlow - Ireland

(12/2017) – (07/2019)

- Owned and administrated OEM control systems in a GMP environment to ensure pharmaceutical compliance.
- Led system improvements, developed detailed specifications, documents, and standard operating procedures.
- Led technical root cause analysis, incident investigations, and troubleshooting issues related to control systems.

EDUCATION

B.S. Applied Mathematics and Computer Science | University of South Africa, South Africa

Graduation Year (2023)

Full-Stack Web Development | HyperionDev, South Africa

Graduation Year (2020)

N.D. Mechanical Engineering | Durban University of Technology, South Africa

Graduation Year (2014)