

## James Schreiber



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<https://jschrbr.github.io/portfolio/>



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### Summary

A Mechanical Engineer with 3 years experience in the Aerospace/Defence Industry. I am a problem solver, driven by understanding the “in’s and out’s” of a process, across all disciplines, then applying the lessons to new projects.

My focus on cross-disciplinary skills allows me to, autonomously, deliver comprehensive solutions. More importantly, these skills enable me to strategise a project, and select the appropriate tools to minimize efforts during development. I.e (Rule 1: Pick the right tool for the job).

My experience over recent years is primarily in creating and maintaining production documentation, as well as hands on assembly and R&D. Over this time I have been able to utilise Python, JavaScript and C++ to resolve challenges in an efficient manner. My hobbies have always added value to my work. I can often be found learning or practicing new topics, keeping current on new technologies, and thinking of new ways to challenge myself.

Every job can be broken into constraints, derived from goals and requirements. I constantly refer back to these constraints when making informed decisions, and try to be a catalyst for that way of thinking in a team.

### Skills

CAD	4 years	Troubleshooting	6 years	Mechanical and Electrical Assembly	6 years
Process Design	3 years	Tool Design	3 years	HTML	3 years
CSS	3 years	JavaScript	3 years	Node	3 years
Python	4 years	Bash	4 years	Git	4 years
C/C++	4 years	SQL	1 year	MongoDb	1 year
React	1 year	Angular	1 year	Redux	1 year

## Projects

### Trakka TLX Searchlight New Product Introduction | [whitepaper](#)

Brought a new aerospace product from R&D to Production.

Leading the implementation of a flagship product from prototype to standard production within aerospace standards, within one year.

- Tested, developed and documented the assembly process
- Trained employee on technically advanced topics and procedures.
- Designed and implemented processes to maintain traceability of required testing and measurements through Production.

### Roboteam Customer Support for the NZDF | [website](#)

Providing technical support for a project with the NZDF EOD squadron.

- Learned to disassemble, maintain and reassemble several products and variants of advanced mechatronic systems within two months.
- Trained operators on basic maintenance and safe operation.

### Twitter clone | Firebase, React.js, Redux and Material-UI | [demo](#)

Twitter clone built from a tutorial but refactored for async/await. (Code available on request).

- Utilizes firebase authentication, functions, database and hosting.
- User, Post and Error data is dispatched through Redux.
- Material-UI used for styling. Server validated errors are handled with styling..

### Second-opinion | ML5.js, P5.js and MaterializeCSS | [git](#) | [demo](#)

A simple machine learning web application where the user can train a custom model based on visual likes and dislikes.

- Utilizes ML5.js to create custom like/dislike classifiers extracted from the MobileNet model.
- DOM manipulation through P5.js
- Styled using MaterializeCSS

### employ-EE | Node and MySQL | [git](#)

A node base CLI application for keeping track of employees and role/department specific information.

- Utilizes ML5.js to create custom like/dislike classifiers extracted from the MobileNet model.
- DOM manipulation through P5.js
- Styled using MaterializeCSS

### Simple-bin | MaterializeCSS, HTML, Javascript | [git](#) | [demo](#)

Just a really simple dec. to bin calculator. Material styling using MaterializeCSS..

- Nice looking calculator, styled to intuit the user on how binary to decimal conversions work.
- Styled using MaterializeCSS

## Work Experience

### Trakka Tech - Technical Support Consultant

April 2020-Present, Melbourne.

- Managing support for system issues.
- Conducting yearly maintenance tasks.

### Trakka Systems - Process Improvement Manager and Production Engineer

Feb 2019 -Feb 2020, Melbourne

- Successfully implemented a new product into an regulated production environment.
- Implemented electronic work instruction to streamlining the new product implementation.
- Onboarded dozens of staff in highly demanding technical roles.

### Trakka Systems - Process Engineer

Feb 2017 - Feb 2019, Melbourne

- Managed Production environment handling non-conformances and other issues that could affect on time delivery.
- Implemented changes in existing documentation within the guidelines of the industry requirements.
- Plentiful experience in hands-on assembly in Production and R&D environments.

### Kevin Stahlmon - Apprentice

Aug 2014 - Dec 2016, Byron Bay

- Learned the basics of working with hand and power tools.
- Initial exposure to larger scale cross disciplinary projects.

### Starseed Gardens - Technical Officer

Feb 2013 - Dec 2016, Byron Bay

- An opportunity to learn and expose myself to a variety of fields including agriculture, mechanical, electrical, plumbing and IT.

## Education

### Full-Stack Web Development Bootcamp Certificate

Monash University, Victoria (2020)

### Bachelors of Mechanical Engineering

Griffith University, Gold Coast (2013-2017)

### VCE

Bialik College, Victoria (2010-2011)

## Certifications/Licenses

Google's Professional Certificate in IT Automation with Python - (2020)

Certified IPC Specialists under IPC-620 C - (re-certified 2019)