

DAVID MIN TAT GOY

Full Stack Web Developer/Engineer

Site: <u>davidgoy.github.io</u> Projects: <u>github.com/davidgoy</u> | Email: <u>david@davidgoy.dev</u>

Summary

Australian full-stack web developer/engineer living in Guernsey, Channel Islands. Skilled in web applications development, servers, databases and systems engineering. Built a number of SaaS (Software-as-a-Service) over the years, from architecture to deployment. Founder of an electric vehicle startup. PhD research degree dropout.

Technologies

Proficient in LAMP stack

o Front-end: HTML, CSS, JavaScript and Bootstrap

o Back-end: PHP, MySQL and CodeIgniter

Shell scripting: Bash

· Knowledgeable in full-stack JS

o Front-end: Vue.js

Back-end: Node.js, Express and MongoDB

Knowledgeable in hosting environment setup and maintenance

o OS: Linux

Web server: Apache HTTP Server

Projects

Reflect (<u>https://github.com/davidgoy/reflect</u>)

Reflect is a standalone web app that you can install and use with WordPress to create an instant, decoupled architecture. Reflect functions as the front-end while WordPress functions as the headless CMS (i.e. back-end). Out of the box, Reflect comes with server-side rendering and static site generation capabilities.

Reflect Form Mailer (https://github.com/davidgoy/reflect-form-mailer)
 Addon for Reflect. Automatically makes plain HTML forms submittable.

Awards

- <u>US patent 8612100</u> for invention of vehicle management control system (2013)
 - Invented during time as a PhD research student at The University of Sydney
 - Enables an entire vehicle to be controlled by a single software framework running on macOS, Linux or Windows computer
- The NEC Semiconductors Singapore Pte. Ltd. Award for Best Project Work (2000)
 - Created during time as a Diploma in Mechatronics Engineering student at Nanyang Polytechnic, Singapore

 Software written in C that enabled engineers to simulate the dynamic performance of micromouse robot without having to build a physical prototype

Businesses

Full-stack Web Developer/Engineer (2011 - Now)

Min Tat Goy (sole trader)

• Founder (2006 - 2013)

Goy Advanced Automobile

Australian electric vehicle startup. Joined by more than 10 Australian and international team members. The startup did not succeed. However:

- Successfully raised first round of funds to pay for consultation with Lotus Engineering
- Vehicle designed by team was featured in *Top Gear Australia* magazine, *Auto Salon* magazine, *Sydney Morning Herald* newspaper and *The Age* (Melbourne) newspaper

Employment

• Technical Delivery and Support - Applications (2018 - Now)
States of Guernsey then later at Agilisys Guernsey

Provides technical support for a wide range of applications used by various departments of the States of Guernsey (i.e. the government of the Bailiwick of Guernsey, Channel Islands)

Manufacturing Engineer (2004 - 2007)
 Silverbrook Research Pty. Ltd., Australia

Researched and implemented mass production methods that could be potentially used to manufacture an ultra-high speed printhead developed by the company

Achievements

- Developed a solution to clean one of the key components that improved the part's yield from approx. 50% to nearly 100% at the cleaning stage of the manufacturing process
- Improvised a solution to remove unwanted residue from a key component's coating, increasing yield from approx. 8% to 90% at an important stage of the manufacturing process and resulting in significant time and cost savings
- Associate Engineer (2000 2001)
 Chartered Semiconductor Manufacturing Ltd., Singapore

<u>Lithography/process department:</u>

Troubleshoot process and machine related issues in the production line, performed quality checks on silicon wafers and develop strategies to

minimise defects/increase manufacturing yield

IPM layout/test structure department:

Drafted semiconductor structures using CAD tool for new test module designs

Achievements

- <u>Lithography/process department:</u>
 Successfully implemented new program criteria for automatic defect detection, significantly reducing errors/false alarms and thus production down time by approx. one hour per day
- IPM layout/test structure department:
 Developed software that automated the drafting of semiconductor structures, enabling the department to produce a month's worth of component design drawings in less than five hours

Education

- Doctor of Philosophy (Engineering and IT) by Research Withdrawn (Dropped out 2013 to pursue business)
 The University of Sydney
- Bachelor of Engineering (Materials and Mechanical Systems) with Honours (2004)

The Australian National University

- Faculty of Engineering and IT Student Services First Year International Scholarship (2002)
- Diploma in Information Technology (Website Development) With Distinction (2011)

TAFE NSW

- 26 distinctions
- Diploma in Engineering (Mechatronics) with Merit (2000)

Nanyang Polytechnic, Singapore

- 15 distinctions
- Top 10% of the graduating cohort for the diploma course
- Sponsorship under Chartered Semiconductor Manufacturing Ltd. (1999 2000)
- Top Student Award, Mechatronics Engineering (1999/2000)
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