DAVID MIN TAT GOY

Full Stack Web Developer/Engineer

Site: davidgoy.github.io **Projects**: github.com/davidgoy | **Email**: david@davidgoy.dev

Summary

Australian web developer living in Guernsey, Channel Islands. Skilled in developing LAMP stack web applications. Built a number of SaaS over the years, from architecture to deployment. Founder of an electric vehicle startup. PhD research degree dropout.

Technologies

- **Proficient in LAMP stack**
  - Front-end: HTML, CSS, JavaScript and Bootstrap
  - Back-end: PHP, MySQL and CodeIgniter
  - Shell scripting: Bash

- **Knowledgeable in full-stack JS**
  - Front-end: Vue.js
  - Back-end: Node.js, Express and MongoDB

- **Knowledgeable in hosting environment setup and maintenance**
  - OS: Linux
  - Web server: Apache HTTP Server

Projects

- **Reflect** (https://github.com/davidgoy/reflect)
  SSR and static site generation capable web app that acts as the front-end for your headless WordPress.

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

Awards

- **US patent 8612100 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

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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

  Lithography/process department:
  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

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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
- ▪ <u>IPM layout/test structure department:</u>
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)
  - ◦ Top Student Award, Mechatronics Engineering (1998/1999)