RÉSUMÉ of Anthony R May

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PROFILE

As a versatile, generalist technologist and electronics designer who prefers to see the bigger picture, I'm always willing to get my hands dirty with details. Confident, calm, good humoured with excellent communication, my history demonstrates collaborative, independent, and leadership work styles, diverse problem-solving experience, and a solid record of satisfying clients and employers.

PROFESSIONAL EXPERIENCE

SNR ELECTRONICS ENGINEER, MAVRX INC., SAN FRANCISCO – JAN 2016 TO PRESENT:

Designing & prototyping the hardware, and team-leading the development of Mavrx's next gen airborne multi-spectral multi-camera system, based on Arch Linux on Xilinx Zynq 7020 FPGA SoC & Cmosis CMV12000 machine vision image sensors & Odroid XU4 SBC control system. Various sensor calibration processes. Integration with existing control system. Recruiting embedded s/w dev & intern. Contributing to the development & debug of other Mavrx national-scale image gathering infrastructure. Living la vida loca in a Silicon Valley tech startup.

ELECTRONICS ENGINEER, ECOULT PTY LTD, SYDNEY – 3 MONTHS IN 2014, ALL 2015:

2014: Co-designed the hardware for the central controller of the UltraBattery monitoring system, involving Freescale Kinetis K60 ARM MCU, Ethernet & PoE, SDcard, USB, isolated RS485, SPI, I2C, CANbus, MODBUS, intricate isolation requirements & international regulations.

2015: Primary electronics designer of 'PLC-replacement' PCB (interfaced with the controller designed in 2014) with high reliability component choices & 1-point fail-safe. Assisting with design tweaks & design-review of all other embedded system monitoring hardware for the 12-Volt-based UltraBattery, particularly for DfM & DfT, in aid of getting their first consumer products, the UltraFlex & UltraPod, to market.

GEEK-IN-CHIEF, TECHYDUDE CONSULTING, SYDNEY – 2013-2015:

Freelance engagement with several clients (USA, Canada, Egypt) performing electronics & embedded system design, based on 8-bit MCUs, coding in C. Two lengthy projects involved substantial Product Design consultation. Included a trip to Shenzhen to familiarise myself with the electronics manufacturing scene there, & to meet my Canadian client at the electronicsASIA October 2014 trade show in Hong Kong.

GEEK-IN-CHIEF, TECHYDUDE CONSULTING, MELBOURNE – 2004-2012:

Self-employed as 'Techydude Consulting', I focussed 100% on small-business IT consulting: providing IT tech-support, management, and infrastructure development & deployment services to my small stable of clients with very low client churn. Strong focus on IT security, backups, fault tolerance & contingency plans.

IT CONSULTANT, COOLADDIE/CDP DIGITAL, MELBOURNE – 2000-2003

I mixed continuing freelance electronics design projects with a new entanglement in small-business IT consulting. Also involved in a major project to fabulously light up the newly constructed Macau Tower & Entertainment Centre for its 19 December 2001 grand opening (see LinkedIn).

MIDNIGHT ENGINEER, SYDNEY – 1998-2000:

Designed electronics for two products marketed by API Security: the reintroduction of modernised pneumatic tube cash handing systems into supermarkets, and a Cash Deposit Safe interconnected with POS systems & coin dispensers that closed the loop on cash handling in petrol stations to minimise employee fraud. Both were installed into major brand supermarkets and petrol stations across Australia.

TECHNICAL MANAGER, BILLBACK SYSTEMS, SYDNEY – 1996-2000:

I herded software support staff, wrangled onsite hardware techs, pretended to manage software developers, placated difficult clients (in legal, accounting & other professional services industries), designed electronics for the current and next generation hardware products and managed manufacturing of the former with two electronics CMs (Dayang & HarTec), assisted in recruitment for all those departments, and lead the relocation of the business & its 25 staff to new premises.

TECHNICIAN/ENGINEER, JATRONICS / FILMLAB ENGINEERING, SYDNEY – 1989-1996:

I started with Jatronics / Filmlab shortly after commencing university, earning my chops in electronics servicing, prototype and small-scale electronics manufacturing inc making our own PCBs, and progressively moving into electronics design (analog, digital, MCUs, power/motor ctrl in LV & ELV environments), application programming of 8-bit microcontrollers (Motorola 6805 & 68HC11) in assembler, and systems integration & pre-installation testing of Filmlab's various 35mm motion-picture film processing and handling products, including chemical replenishment systems. These are large machines in an industrial environment containing caustic chemicals, where personal safety, high value infrastructure, & priceless customer media, had to be considered at all times.

EDUCATION

SWINBURNE TAFE - RENEWABLE ENERGY TECHNOLOGY

FEB 2007 TO DEC 2008, PART-TIME (EVENINGS).

Having an interest in PV Solar since childhood, I cherry-picked subjects from this course purely in an informal/casual manner to satisfy my curiosity as to where the domestic/small-commercial renewable energy technology market was at, in terms of technology, application, installation & legislation. Subjects covered included Intro to Renewable Energy; Energy Auditing; PV Solar; Lead-Acid Battery Storage systems; Wind Energy Conversion Systems; Sustainability & Intro To Environmental Management.

UNIVERSITY OF TECHNOLOGY, SYDNEY – ELECTRICAL ENGINEERING

I commenced this degree after completing high-school and completed nearly half before butting heads with the level of mathematics required but almost never used in my industry.

MARYMOUNT COLLEGE (HIGH SCHOOL), BURLEIGH HEADS, GOLD COAST, QLD.

SENIOR CERTIFICATE T.E. SCORE: 895 / 990.

Final 2 year subjects: English (4U), Maths 1 (4U), Maths 2 (4U), Chemistry (4U), Physics (4U), Logic & Philosophy (4U).

MISCELLANY:

Active license subscription for Altium Designer.

Tech community online engagement: Stack Exchange - Electronics Engineering & Quora.

Holder of a Class C (<13 people, <4.5t) Australian (New South Wales) driver license.
I will be obtaining my California driver license soon.

Citizenship: Australian.
Holder of a **L2 visa** permitting non-immigrant residency in the United States through to October 2020 (renewable), and a current **Employment Authorisation Document** from USCIS permitting employment by any private US employer.