Daniel Surizon

Embedded Software Developer

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Skills

- Embedded C programming on Linux.
- Python.
- RAG applications with Langchain, HuggingFace, and Ollama.

Experience

SolarEdge Technologies / Software Engineer
2021 - Present

- Designing and developing features from scratch.
- Leading certification projects for the Australian market, ensuring compliance with local standards.
- Improved cross-board telemetry performance by an average of 53%, boosting data accuracy and system responsiveness.
- Debugging and fixing legacy code.
- Developed an internal RAG application, streamlining access to internal documents and reducing search time.
- Work closely with customers and partners.

KANDO Clear Upstream / Embedded Software Engineer
2019 - 2021

- Developed and maintained code for wastewater management systems.
- External sensors integration with the system.
- Writing sensor drivers.
- Implemented infrastructure improvements.
- Represented KANDO as the first-place winner in SEAGATE Innovator of the Year.
- Developed the 'City-level SARS-CoV-2 sewage surveillance' system, Covid-19 sewage trakking.

RB-SYSTEMS / Embedded Software Engineer
2018 - 2019

- Developed driving aids for disabled drivers, interfacing with vehicle communication systems (CAN-BUS, LIN-BUS).
- Utilized SPI & UART on Microchip CPUs with MPLAB X for system development.
- Development of Electronic vehicle gas control system.
- Reverse engineer the car data and communication using a physical sniffer.

Education

Ruppin Academic Center / B.Sc. Electrical and Electronics Engineering
2015 - 2019

- Developed a spectrophotometric otoscope for diagnosing ear infections using spectroscopy techniques.
- Applied machine learning and data analysis in Python with sci-kit-learn and MATLAB to enhance diagnostic accuracy.
- Implemented Principal Component Analysis (PCA) for data reduction and visualization.

Awards

Contributing to the establishment of Corona field hospitals in Angola, Africa. (LinkedIn link)