

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 Developer

2021 - Present

- Led the transition from direct battery power control to inverter voltage control, optimizing system efficiency.
- Led the implementation of phase balancing certification 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.
- Developed an internal RAG (Retrieval-Augmented Generation) application, streamlining access to internal documents and reducing search time.

KANDO Clear Upstream / Embedded Developer

2019 - 2021

- Led digitization projects for wastewater networks, enhancing utility operations, environmental conditions, and public health.
- 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 tracking.
- Developed and maintained code for wastewater management systems, including writing sensor drivers.
- Integrated sensors and implemented infrastructure improvements.

RB-SYSTEMS / Embedded Developer

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

Assisting in the establishment of field hospitals for Corona patients in Angola, Africa. ([LinkedIn link](#))