






Daniel Surizon Embedded Software Developer	 +972542111282  Danielsuri@gmail.com  linkedin.com/in/Danielsuri  danielsuri.github.io  huggingface.co/Danielsuri
Skills	<ul style="list-style-type: none"> • Embedded C programming on Linux. • MQTT. • Protobuf and REST API. • Python. • RAG applications with Langchain, HuggingFace, and Ollama. • Jira and Git. • Problem solving.
Experience	<hr/> SolarEdge Technologies / Software Engineer 2021 - Present <ul style="list-style-type: none"> • Designing and developing features from scratch, involving detailed requirement analysis. • MQTT and Threading: Resolved parallel threading issues using mutexes, IPC with MQTT (paho.mqtt). • Worked with Protobuf over REST API for server communication. • Led projects to renew certification for the Australian market by addressing communication time issues, and collaborating with certification labs. • Enhanced telemetry performance by 53% by optimizing communication, leading to efficient data handling. • Applied deep and broad code and system understanding to debug and fix legacy code, utilizing code traces and thorough investigation of weak points. • Developing an internal RAG application using Langchain and Ollama for local operation, aimed at summarizing planning documents and Confluence pages to optimize efficiency. • Managed integration with future clients, providing assistance and troubleshooting with the support team. KANDO Clear Upstream / Embedded Software Engineer 2019 - 2021 <ul style="list-style-type: none"> • Developed and maintained code for wastewater management systems. • External sensors integration and writing sensors 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 tracking. RB-SYSTEMS / Embedded Software Engineer 2018 - 2019 <ul style="list-style-type: none"> • 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. • Reverse engineer the car data and communication using a physical sniffer.
Education	<hr/> Ruppin Academic Center / B.Sc. Electrical and Electronics Engineering 2015 - 2019 <ul style="list-style-type: none"> • Developed a spectrophotometric otoscope for diagnosing ear infections using spectroscopy techniques. • Applied machine learning and data analysis in Python and MATLAB to enhance diagnostic accuracy. • Implemented Principal Component Analysis (PCA) for data reduction and visualization.
Awards	<hr/> Contributing to the establishment of Corona field hospitals in Angola, Africa. (LinkedIn link)