






<b>Daniel Surizon</b> Embedded Software Developer	<div>  +972542111282         </div> <div>  Danielsuri@gmail.com         </div> <div>  linkedin.com/in/Danielsuri         </div> <div>  danielsuri.github.io         </div> <div>  huggingface.co/Danielsuri         </div>
<b>Skills</b>	<ul style="list-style-type: none"> <li>• Embedded C programming on Linux.</li> <li>• MQTT.</li> <li>• Protobuf and REST API.</li> <li>• Python.</li> <li>• RAG applications with Langchain, HuggingFace, and Ollama.</li> <li>• Problem solving.</li> </ul>
<b>Experience</b>	<div> <b>SolarEdge Technologies / Software Engineer</b>            2021 - Present           <ul style="list-style-type: none"> <li>• Designing and developing features from scratch, involving detailed requirement analysis.</li> <li>• MQTT and Threading: Resolved parallel threading issues using mutexes, IPC with MQTT (paho.mqtt).</li> <li>• Worked with Protobuf over REST API for server communication.</li> <li>• Led projects to renew certification for the Australian market by addressing communication time issues, and collaborating with certification labs.</li> <li>• Enhanced telemetry performance by 53% by optimizing communication, leading to efficient data handling.</li> <li>• Applied deep and broad code and system understanding to debug and fix legacy code, utilizing code traces and thorough investigation of weak points.</li> <li>• Developing an internal RAG application using Langchain and Ollama for local operation, aimed at summarizing planning documents and Confluence pages to optimize efficiency.</li> <li>• Managed integration with future clients, providing assistance and troubleshooting with the support team.</li> </ul> </div> <div> <b>KANDO Clear Upstream / Embedded Software Engineer</b>            2019 - 2021           <ul style="list-style-type: none"> <li>• Developed and maintained code for wastewater management systems.</li> <li>• External sensors integration and writing sensors drivers.</li> <li>• Implemented infrastructure improvements.</li> <li>• Represented KANDO as the first-place winner in <a href="#">SEAGATE</a> Innovator of the Year.</li> <li>• Developed the '<a href="#">City-level SARS-CoV-2 sewage surveillance</a>' system, Covid-19 sewage tracking.</li> </ul> </div> <div> <b>RB-SYSTEMS / Embedded Software Engineer</b>            2018 - 2019           <ul style="list-style-type: none"> <li>• Driving aids for disabled drivers, interfacing with vehicle communication systems (CAN-BUS, LIN-BUS).</li> <li>• Utilized SPI &amp; UART on Microchip CPUs with MPLAB X for system development.</li> <li>• Reverse engineer the car data and communication using a physical sniffer.</li> </ul> </div>
<b>Education</b>	<div> <b>Ruppin Academic Center / B.Sc. Electrical and Electronics Engineering</b>            2015 - 2019           <ul style="list-style-type: none"> <li>• Developed a spectrophotometric otoscope for diagnosing ear infections using spectroscopy techniques.</li> <li>• Applied machine learning and data analysis in Python and MATLAB to enhance diagnostic accuracy.</li> <li>• Implemented Principal Component Analysis (PCA) for data reduction and visualization.</li> </ul> </div>
<b>Awards</b>	Contributing to the establishment of Corona field hospitals in Angola, Africa. <a href="#">(LinkedIn link)</a>