Denis **Škerk**

EDUCATION

STRATHCLYDE UNIVERSITY

MSc in Electronic & Electrical Engineering Sep 2020 | Glasgow, Scotland

with distinction UNIVERSITÀ DEGLI

STUDI DI TRIESTE

BSc in Electronic Engineering Mar 2019 | Trst, Italy

CONTACTS

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in denisškerk

C) gib4

COURSEWORK

GRADUATE

Advanced Micro Controllers • Image & Video Processing • Advanced DSP • DSP Principles • Embedded System Design

UNDERGRADUATE

Electronics • Telecommunications • Computer Networks • Automation • Economics

SKILLS

PROGRAMMING

 $\mathsf{Dart} \cdot \mathsf{Python} \cdot \mathsf{Perl} \cdot \mathsf{C} \cdot \mathsf{C} {}^{\text{++}} \cdot \mathsf{QT} \; \mathsf{Designer}$

OS & OTHER

Flutter • Linux Red Hat • LATEX • HTML

LANGUAGES

English (native) • Slovenian (native) • Italian (native)

INTERPERSONAL SKILLS

Adaptable • Conflict resolution • Active listener

INTERESTS

Music composition • Consumer Tech • Tennis

CAREER EXPERIENCE

U-BLOX | Specialist Engineer - Validation Modules IoT

Jan 2024 - Present | Sgonico, Italy

- **Network Services Testing**: Developed and executed tests for network services in Perl, focusing on cellular modules' functionality.
- **PSM Testing**: Developed and executed tests in Perl to validate cellular modules' Power Saving Mode functionality and power consumption optimization.
- Automation Development: Contributed to automating a Linux-based network simulator within the Automated Testing environment using Python and Perl.
- **GUI Development**: Created a graphical interface using custom Tkinter library in Python for module piloting, integrating with existing terminal control for cost reduction.

LEONARDO - ELECTRONICS | Avionic Software Engineer - Ext.

Consultant

May 2021 - Present | Ronchi dei Legionari, Italy

- Radar Simulation: Developed C++ models and simulations for radar systems in a multi-process environment utilizing shared memory communication.
- UI Development: Created radar testing interface using QT Designer 5 to streamline testing procedures.
- Systems Engineering: Led system requirements definition and modeling efforts for radar systems.
- Documentation: Authored technical documentation adhering to MIL-STD specifications and guidelines.

RB | Photovoltaic System Designer

Nov 2020 - April 2021 | Frazione Stazione Prosecco, Italy

- Process Automation: Led initiatives to streamline and automate workflows for photovoltaic system design.
- System Design: Developed design solutions and pricing strategies for photovoltaic systems with storage.

MIPOT HI-TECH COMPANY S.P.A. | SOFTWARE ENGINEERING

INTERN IN R&D DEPARTMENT

Nov 2017, Oct 2018 - Mar 2019 Cormons, Italy

- Protocol Development: Engineered a protocol bridge between Modbus (RS-485) devices and LoRaWAN RTX module utilizing microcontroller and UART communication.
- Hardware Integration: Designed and implemented adaptation circuits for seamless interface between Modbus devices and microcontrollers.
- Power Consumption Optimization: Analyzed and optimized RF receiving unit performance to achieve 100% receiving rate while minimizing power consumption, conducting energy efficiency validation within HCS protocol constraints.

PROJECTS

ECG GENERATION USING GAN | MSc DISSERTATION

May 2020 - Aug 2020 | Glasgow, Scotland

- Use a Generative Adversarial Network on Pythorch framework to generate the electrocardiograms.
- · Pre-process the MIT-BIH arrhythmia dataset on Matlab.
- · Model tested on Google's platform Colab.