

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 denišškerk

gib4

COURSEWORK

GRADUATE

Advanced Micro Controllers

Image & Video Processing

Advanced DSP

DSP Principles

Embedded System Design

Professional Studies and Assignments

UNDERGRADUATE

Electronics

Telecommunications

Computer Networks

Automation & Control Systems

Java Programming

Electromagnetic Fields

Economics

SKILLS

PROGRAMMING

Dart • Python • C • C++ • QT Designer

OS & OTHER

Flutter • Linux Red Hat \LaTeX • HTML

LANGUAGES

English (*advanced*) , Slovenian (*native*) ,

Italian (*native*)

INTERPERSONAL SKILLS

Can easily adjust in different situations •

Conflict resolution and mediation •

Listening skills

INTERESTS

Music composition

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.
- 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 modelling and simulation in C++ in a multi-process environment that uses a shared memory to enable the communication between them.
- Development of a UI for radar testing with QT Designer 5.
- Definition of system requirements and system modelling.
- Document writing following the MIL-STD.

RB | PHOTOVOLTAIC SYSTEM DESIGNER

Nov 2020 – April 2021 | Frazione Stazione Prosecco, Italy

- Digitisation and automation of the internal processes when designing photovoltaic systems.
- Design and price quotation of photovoltaic systems combined with storage units.

MIPO T HI-TECH COMPANY S.P.A. | SOFTWARE ENGINEERING INTERN IN R&D DEPARTMENT

Oct 2018 - Mar 2019, Nov 2017 | Cormons, Italy

- Developed a protocol bridge between Modbus (RS-485) devices and LoRaWAN RTX module using micro controller and UART communication
- Built adaptation circuit between Modbus device and micro controller
- Analyzed RF receiving unit performance, optimizing timing for 100% receiving rate while minimizing power consumption
- Validated energy efficiency targets 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.

