Klevis Resuli

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SKILLS & INTERESTS

- **Technical Skills:** Microcontrollers; C; C++; Python; Assembly; HDL; communication protocols(I2C, SPI, CAN, UART); MATLAB/Simulink; Linux; HIL; Problem Solving;
- **Language skills:** Albanian; English; Italian;
- **Interests:** electronics; technology; sustainability; reading; traveling; training

EDUCATION

Norwegian University of Science and Technology **Aug.2023 - Present**
MS, Embedded Computing Systems *Trondheim, NO*

- Erasmus mundus full scholarship holder

Coursework: Microcontrollers, C/C++, ARM assembly, RTOS, FPGA/Verilog HDL, Communication protocols

Polytechnic University of Tirana **Oct.2019 – Jul.2022**
BS, Electronic Engineering *Tirana, AL*

- Final Grade 9.66/10

Coursework: Microcontrollers, C/C++, Algorithms and Data Structures, FPGA/VHDL HDL, Classical Control Systems, Data Communication & Networking, Circuit Analysis

WORK EXPERIENCE

Kineton Albania **Sept. 2022 – Aug.2023**
Test Engineer *Tirana, AL*

- Kineton Albania is a company that offers consulting services for tier 1 companies.
- As part of Kineton, I worked as an Automotive Test Engineer consultant for Maserati where:
  - Worked on the development of M189.
  - Utilized V-Cycle development methodology to write Verification and Validation tests for latest automotive software.
  - Executed tests in hybrid environment to find bugs and report them.

PROJECTS

Alarm System Powered by Solar Energy

- Part of my bachelor thesis, where I made a system using Arduino Uno as central unit of a home alarm system.
- Consists of measuring temperature, humidity, LPG level, water level, flame detection, front door opening detection by using suitable sensors and activating the alarm when the threshold values exceeded.
- To power the system a solar panel is used and a battery as a backup.

Link: https://github.com/klevisresuli/Alarm-System-Powered-by-Solar-Energy

Ping Pong game

- Part of term project in TTK4155 course at NTNU, where a ping pong game machine was built.
- Using two nodes, node one consisting of ATMEGA162 microcontroller to get the data from an USB gaming board and node two an Arduino DUE board to control the servo and motors of ping pong board.
- Two nodes interact with each other by using CAN communication and making the whole system work.

Link: https://github.com/klevisresuli/PingPongGame