DANIEL VRABII

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Work experience

06/2021 - Present

Embedded Software Engineer

ADD Grup

Firmware development for microcontrollers and peripherals

2014 - 2017

Engineering club member

"Micro Lab" Engineering Club

University club for embedded systems enthusiasts

2014 - 2016

Research Assistant

National Center for Materials Study and Testing

Computer simulations of nano-sensors.

Research activities in area of synthesis and growth of ZnO nanowire.

Education

2018 - 2020

Master's degree (second year)

University of Kaiserslautern

European Masters in Embedded Computing Systems (EMECS)

2017 - 2018

Master's degree (first year)

Norwegian University of Science and Technology (NTNU)

European Masters in Embedded Computing Systems (EMECS)

2012 - 2016

Bachelor of Engineering (B.E.)

Technical University of Moldova

Undergraduate studies in Microelectronics and Nanotechnology .

Skills

Scientific Simulations

Experience with the software Comsol Multiphysics in designing computer simulations for nanomaterials and their properties.

Embedded systems

Experience in programming embedded systems on AVR and STM32 microcontrollers. Embedded programming on Linux and Windows machines.

Familiar with control systems, electronics, PCB design and embedded OS.

Machine Learning/Deep Learning

Experience with ML algorithms (linear/logistic regression, PCA, random forest, boosting/bagging etc.). Experience with DL algorithms (CNN, RNN/LSTM).

Familiar with frameworks such as scikit-learn Pytorch and Tensorflow.

Languages

English

Russian

German

Romanian

Italian

Programming languages

Python

C/C++

Golang

SQL