

István Nagy

Electrical Engineer - Embedded Systems

Profile

Passionate about programming and learning new technologies. I have gathered experiences as software developer mostly in the field of Automotive and Automation Systems. From both fields I have learnt how to make reliable and safe software and hardware components.

I have developed projects started from making specifications and requirements through making software and hardware component to documentation and delivery.

I like to work indepedently but also I consider myself as a team player especially when a project requires other engineering fields to be merged.

Contact

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Expertise

- C/C++, Python, Latex, PCB design
- Image processing, Computer Vision
- AUTOSAR Classic Platform
- FreeRTOS, Linux, STM32, Raspberry Pi

Languages

- English(B2) Daily use and professional working proficiency
- Hungarian Native

Other interests

- Music production FLStudio
- VJ production Resolume

Education

• Óbuda University - KVK

Electrical Engineer (BSc.)

2015 - 2019

Specialisation: Automation - Embedded Systems expert Classification of the qualification: Outstanding

Experiences

• Electronics Development Engineer Unix Autó Kft., Budapest, 1139

I was the part of the Research and Development team. The main portfolio of the department was warehouse automation system development.

I was responsible for:

- specificate and making requirements about the project and calculate deadlines for each individual tasks
- design circuit in Altium or KiCAD with 2 or 4 layers of PCB (THT and SMD components as well)
- search and order required components and keeping contact with suppliers
- developing source code for STM32 development boards (or Raspberry Pi)
- Making unit test framework for functional testing and lifetime testing hardware components
- Prepare user guide or assembly guide for technicians (with Latex and UML)

Projects:

Robot arm positioning with computer vision: I was developing QR Code detection algorithm with the help of OpenCV in C++. The QR code was responsible to show the middle point of an object. If the center point was found then the coordinates were sent via CAN to a STM32 control board and the robot arm was moving according to that.

Slide level detection with computer vision: