Dmitrii Varlamov

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OBJECTIVE

Enthusiastic engineering graduate with expertise in embedded systems, robotics, and software development. Skilled in C, C++, Python, ROS, OpenCV, OpenGL, and PLC programming. Passionate about real-time systems, sensor integration, and industrial automation. Strong problemsolving skills and ability to communicate complex technical concepts. Seeking a role to apply my expertise in embedded systems, robotics, or automation.

EDUCATION

Bachelor of Engineering in Mechatronics Technical University of Applied Sciences Würzburg-Schweinfurt – August 2023 Specialization: Machine learning, Robotics and

Automation

ENGINEERING PROJECT

Computer Vision and Object Detection

Tools: Python, OpenCV

Contributions:

- Implemented camera calibration process.
- Developed a pose estimation algorithm for 3D camera positioning.
- Designed an image stitching pipeline to merge multiple images seamlessly.

THESIS

Virtual LiDAR Simulation

Tools: Unity, ROS, C#

Contributions:

- Developed a virtual LiDAR simulation for testing autonomous vehicle navigation algorithms.
- Integrated Unity with ROS for real-time sensor data processing and environmental interaction.
- Presented the project at a university showcase, receiving positive feedback from professors

LANGUAGES

English - C1 German - B1 Russian - native tongue

SKILLS

Programming Languages:

- C, C++ Command-line & graphical applications (OpenCV, OpenGL, ImGui, Qt, GLM, Assimp).
- Python Machine learning (Pandas, Scikit-learn), camera calibration (OpenCV).
- C# LiDAR simulation in Unity (ray tracing, GPU programming, HLSL).
- Java Basic knowledge.

Tools & Software:

- MATLAB/Simulink Control system modeling.
- Unity Physics simulation (LiDAR).
- Siemens STEP 7 (TIA Portal) PLC programming (ladder logic).
- OpenModelica Motor control simulation.
- LTspice/Digital Circuit & logic simulation.
- LabVIEW Microcontroller programming.
- Autodesk Fusion 360 3D CAD modeling.

Embedded Systems & Robotics:

- Arduino CNC machine with stepper motor control.
- ROS Sensor data collection in Unity.

Algorithms & Computer Architecture:

- Algorithms & Data Structures Binary search, sorting, trees, queues.
- Computer Architecture Processor design, memory hierarchy, system operations.

Interpersonal & Professional Skills:

- Team-oriented & independent work.
- Quick learner & problem solver.
- Clear communicator.
- · Detail-oriented in programming and design.

WORK HISTORY

06.2019 - 09.2022 Novazelte (Germany)

Tent installer/driver

07.2016 - 05.2018 RossLogistic (Russia)

Forklift driver

04.2016 - 06.2016 Hyundai Motor Manufacturing (Russia)

Operator in the welding shop

10.2010 - 06.2016 IKEA (Russia)

Forklift driver

06.2009 - 09.2009 Coca-Cola Enterprises (USA)

Expediter

06.2007 - 09.2007 Food Lion grocery store (USA) Merchant

CERTIFICATIONS

- European Driving License (BE)
- Public speaking certificate
- Electric circuit Installer certificate
- Electric and Gas Welder certificate (MIG/MAG)