

Aleksandr Semenov

Junior C++

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EDUCATION

- 2018-2022: Saint Petersburg State University, Department of Mathematics and Mechanics
Bachelor of Software and Administration of Information Systems

WORK EXPERIENCE

- 2022-2022: LLC Harman
Junior software engineer in automotive team that develops the ADAS driver assistance system.
Technology stack:
 - C++
 - OpenCV

PROJECTS

- 2019 DailyLog Bot
Telegram bot for time management and note taking.
 - I developed the architecture of the bot, the database and implemented its functionality
 - **Technology stack:** Python, pyTelegramBotApi, SQLite
- 2020 HwProj Coursework service
HwProj is a service for interaction between teachers and students and monitoring the implementation of programming homework.
 - I did the frontend part of the web application
 - **Technology stack:** Typescript, React, jwt-decode
- 2020-2021 Online camera roll calibration
Online calibration of the camera roll in the machine coordinate system for ADAS.
 - I did research and implemented the solution algorithm, tested on real videos
 - **Technology stack:** C++, OpenCV, CI/CD: Travis CI
- 2021-2022 Building and tracking a road model
Solving the problem of building a road model online and then tracking it.
 - I did research on road models and ways to track them, implemented a solution algorithm, and tested on real data
 - **Technology stack:** C++, OpenCV, CI/CD: Travis CI, unit testing: googletest

GENERAL SKILLS

C++ STL Qt valgrind Python Typescript googletest pytest Git CI/CD OpenCV
UML Design patterns Linux DB shell