

# Aleksandr Semenov

Junior C++

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## EDUCATION

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

Graduated from the Department of Systems Programming with a grade point average of 4.62

## WORK EXPERIANCE

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- 2022—2022: LLC Harman  
Junior software engineer in automotive team that develops the ADAS driver assistance system.

As part of my work, I solved the problem of constructing and tracking a road boundary model from the input stream of contours, and conducted testing on real data.

The result is a prototype that solves the problem with minimal delay.

### Technology stack:

- C++
- OpenCV
- Travis CI
- GoogleTest

## PROJECTS

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- 2020-2021 Online camera roll calibration  
*Online calibration of the camera roll in the machine coordinate system for ADAS.*

As part of the project, I:

- Did research on existing approaches to solving similar problems
- Implemented a solution algorithm in C++ using the computer vision library OpenCV
- Conducted testing on real videos from video recorders

The result was a working prototype that calculated the camera roll angle in online.

### Technology stack:

- C++
- OpenCV
- Travis CI

## GENERAL SKILLS

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