

Anton Pozharskiy (Github: apozharski)

2104 Triandos dr., Timonium MD, 21093. | Cell:443-803-4945 Email: apozharski@gmail.com

Education:

University of Maryland: College Park, College Park, MD

Bachelor of Science in Computer Science,

Bachelor of Science in Electrical Engineering,

Graduating: July 2020

Status: Junior, Honors College: University Honors. GPA: 3.85

Experience:

Hillcrest Laboratories (InterDigital)

Summer 2018, Summer 2017

R&D Intern: Summer 2018

- Develop from the ground up an in-house embedded Visual-Inertial Odometry algorithm.
- Qualify and test OSS SLAM, and Visual-Inertial odometry algorithms.
- Update open source implementations to build and run on modern systems.
- Add ROS bindings for open source SLAM implementations.
- Implement fisheye calibration for camera_calibrator ROS node.

Robotics Intern: Summer 2017

- Developed room level localization algorithm using wifi access points.
- Implemented and tuned ROS(robotics operating system) system for turtlebot, including mapping, exploration, localization, and path planning.
- Developed Android app for RF fingerprinting data collection.

Relevant Courses:

- | | |
|---|----------------------------------|
| ➤ Algorithms | ➤ Computer Vision |
| ➤ Organization of programming Languages | ➤ Computer Systems |
| ➤ OO Programming/Data Structures | ➤ Signal Processing |
| ➤ Compilers | ➤ Partial Differential Equations |
| ➤ Digital Circuits | ➤ SLAM |

Projects:

AdaptiveAud.io

Automatically dim music volume to allow your friends to talk.

- Use statistical signal matching to eliminate music being played.
- Speech detector using discrete fourier transform and bandpass filter.

Skills:

OS: Windows, Linux.

Fluent Languages: English, Russian.

Languages: Python (NumPy, SciPy, Matplotlib), Java, C, C++, Ruby, Ocaml, Matlab, Verilog.

Tools: CMake, git, SQL, ROS, Android, LaTeX, Cadence, various SLAM technologies.

Clubs/Leadership:

Dulaney High school FRC Robotics team: REX (1727).

2016-Present

Programming/Electronics mentor

- Train programmers new to the frc system.
- Help students develop electronics system using the FRC control system.

Awards/Professional Organizations/Events:

Dean's List (Electrical Engineering, 2016-18, Computer Science, 2016-18)

Hackathons: Hoya Hacks 2016, HackUMBC 2016.

TOP 10: HopHacks 2017 with AdaptiveAud.io (Python based automated, adaptive, volume control)