

# Anton Yanovich

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## EDUCATION

<b>Carnegie Mellon University</b> Master of Science in Mechanical Engineering   GPA: 3.96/4.0	Pittsburgh, PA May 2024
<b>The George Washington University</b> Bachelor of Science in Mechanical Engineering, Minor in Business   GPA: 3.68/4.0	Washington, DC May 2023

**Completed Coursework:** Modern Control Theory, Nonlinear Control, Machine Learning, Computer Vision.  
**Current Coursework:** Visual Learning & Recognition, Robot Learning, Advanced Engineering Computations (C/C++).

## SELECTED PROJECTS

<b>Autonomous Vehicle Control</b> <i>AirLab, Carnegie Mellon University</i> <ul style="list-style-type: none"><li>Implementing Model Predictive Path Integral (MPPI) control framework in C++ using existing Python architecture.</li><li>Enabling fast and parallel processing capabilities, significantly improving the vehicle's real-time decision-making and performance.</li></ul>	Mar. 2024 - Present C++, Python, ROS
<b>Synthetic Dataset Generation</b> <i>AirLab, Carnegie Mellon University</i> <ul style="list-style-type: none"><li>Developing an efficient RGB to Thermal Infrared (TIR) translation algorithm using generative models.</li><li>Generating a large-scale synthetic dataset to train and validate the vehicle's perception system, reducing the need for real-world data collection.</li></ul>	Feb. 2024 - Present Python, PyTorch
<b>Thermal Sensing Integration</b> <i>AirLab, Carnegie Mellon University</i> <ul style="list-style-type: none"><li>Leading stereo thermal sensor integration to elevate autonomous navigation capabilities under varied weather conditions.</li><li>Designing, fabricating custom sensor mounts, and ensuring data stream compatibility with the vehicle's existing systems.</li></ul>	Oct. 2023 - Present SOLIDWORKS, C++, Python, ROS
<b>IoT Public Health Device Concept</b> <i>Capstone Design Project, George Washington University</i> <ul style="list-style-type: none"><li>Spearheaded the multidisciplinary design and development efforts.</li><li>Designed physical prototypes, demonstrating concept materialization proficiency.</li><li>Conducted business market research, enhancing the project's commercial viability in the context of entrepreneurial start-up contests.</li></ul>	Aug. 2022 - May 2023 SOLIDWORKS, Arduino, C++

## EXPERIENCE

<b>Biofluids and Dynamics Lab, George Washington University</b> <i>Summer Research Fellow</i> <ul style="list-style-type: none"><li>Led the design and assembly of hardware components for cardiovascular flow modeling experiments, showcasing strong project management and practical engineering expertise.</li><li>Collaborated closely with machine shop staff and mentors to enhance the efficiency of manufacturing and assembly processes, resulting in significant improvements to the overall project timeline.</li></ul>	Washington, DC June 2021 - Aug. 2023
<b>Drone Point Solutions</b> <i>Product Engineering Intern</i> <ul style="list-style-type: none"><li>Created insight into the EV, solar power, and power management industries by performing research on relevant technologies.</li><li>Presented viable designs and product solutions to meet customer needs.</li><li>Gained experience in the management and strategy of a growth-stage start-up company.</li></ul>	Washington, DC Jan. 2022 - Sept. 2022

## LEADERSHIP & VOLUNTEERING

<b>Section Chair</b> <i>American Society of Mechanical Engineers (ASME), George Washington University</i> <ul style="list-style-type: none"><li>Successfully revitalized and led the ASME student chapter, significantly enhancing its presence within the university community.</li><li>Developed and maintained strong relationships with faculty and peers, supporting the chapter's networking and professional development opportunities.</li></ul>	Washington, DC Sept. 2021 - May 2023
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## SKILLS

<b>Programming Languages:</b>	Python, C/C++, JAVA, LaTeX, MATLAB, HTML
<b>Libraries:</b>	PyTorch, Numpy, Pandas, OpenCV, OpenGL, Matplotlib, Scipy
<b>Environment/Tools:</b>	Windows, Linux, ROS, AWS, Jupyter, MS Office
<b>CAD Tools:</b>	Inventor, SOLIDWORKS, SolidEdge, SketchUp
<b>Languages:</b>	English (fluent), Russian (native), French, Romanian.