

**William John Paivine III**  
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## Education

**CARNEGIE MELLON UNIVERSITY (2016 August - 2020 January) PA, PITTSBURGH**  
Bachelor of Science, Computer Science in School of Computer Science (SCS).  
Minor in Language Technologies. Planned Minor in Robotics. Currently in Sophomore year. 3.49/4.0 QPA

**SAGE HILL SCHOOL (2012 August - 2016 May) CA, NEWPORT BEACH**  
AP Student, 4.49/5.0 GPA

## Experience

**CARNEGIE MELLON BIOROBOTICS LAB (2017 February - Present) PA, PITTSBURGH**  
Worked with modular snake-like robots, using MATLAB, Python, and C. Wrote robust Python API for said robot modules, and worked on computer vision, gait generation, and reinforcement learning. Author on upcoming conference paper on application of reinforcement learning on snake robots. Performed research in summer of 2017 after receiving a CMU SURF grant.

**CARNEGIE MELLON 15-131 TA (2017 August - Present) PA, PITTSBURGH**  
Worked as a teaching assistant for the CMU School of Computer Science course 15-131, Great Practical Ideas in Computer Science. Taught lectures to entire freshman incoming class on Regex, Bash/Shell Scripting, Linux usage, Git/Version Control, Bitcoin/Blockchain, LaTeX, Make, and more. Also assisted in creating and grading problem sets and examinations. Developed simple blockchain-based cryptocurrency using tools learned in this class as a teaching aid.

**EMERALD BAY BIKE SHOP DIRECTOR (2013 May - 2016 August) CA, AVALON**  
Managed bike shop staff, budget, and inventory over summers. Acted as manager when interacting with customers, as well as using technical skills to maintain fleet of approximately sixty bicycles. Became an experienced at leading teams as well as meeting tight deadlines..

## Community and Honors

**HACK CMU 2016 WINNER (2016 September) PA, PITTSBURGH**  
Developed TalksBox app in team of 4 during CMU hackathon. The app takes photos of objects in the user's environment and provides translations of the names of those objects to the language of choice for the user.

**EXCELLENCE IN COMPUTER SCIENCE (2016) CA, NEWPORT BEACH**  
Sole recipient of award for recognition of computer science skills in high school, for performance in both the AP computer science curriculum and out of class work.

**HELLO WORLD: PROGRAMMING FOR THE FUTURE (2014 - 2016) CA, NEWPORT BEACH**  
Founded a service group focused on teaching elementary and middle school students introductory programming and robotics skills with Scratch and Arduino.

## Skills

English • Spanish • Python • C • Java • bash • Linux/Unix • Latex • Git • Computer Vision • Reinforcement Learning

## Personal

Interested in languages, conversationally fluent in Esperanto. Currently learning Polish at the University of Pittsburgh.

## Relevant Coursework

Great Ideas in Theoretical Computer Science • Principles of Imperative Computation • Principles of Functional Programming • Matrix Algebra • Introduction to Computer Systems • Robot Kinematics and Dynamics