Aaron Yeiser
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3 Ames St.
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Education

High School
Took Discrete Math, Numerical Analysis, Algorithms at Ursinus College

MIT
Freshman (class of 2021)
Considering a major in 6.2 (EECS)

Research

Ursinus College, with Dr. Akshaye Dhawan
Co–published a paper with Dr. Akshaye Dhawan (Ursinus College)
Research was about finding small connected dominating sets of graphs

MIT PRIMES–USA and Regeneron STS, with Dr. Alex Townsend
Helped develop a new method of numerically solving PDEs
The new method is more efficient for high polynomial degree approximation
Wrote a CFD simulation that works for Reynolds numbers Re ≈ 1600
Research won 2$^{\text{nd}}$ place nationally in the Regeneron Science Talent Search
I plan on submitting a paper for publication by the end of January

Experience

Programming
Fluent in C++, Julia, MATLAB, Python, LaTeX
Worked on long–term projects (PDE research was largely writing Julia/MATLAB code)
PDE research also involves multithreading
Experience reading technical math and CS papers
I use Linux (Arch)

Hobbies

I built a quadcopter and programmed an Arduino to do stabilization
Also wrote a Python script to simulate the quadcopter and tune PID coefficients
Helped teach a Splash class (at MIT) about PID control

Employment

Summer job
I taught sailing to children and adults at the MDI Community Sailing Center
I also did boat repair, customer service, and occasional IT work

VideoRay Internship
Worked for VideoRay for six weeks
Worked on programming an Arduino to do motor control
Also worked on testing underwater cameras and Ethernet connections

References

Akshaye Dhawan (adhawan@ursinus.edu)
Alex Townsend (townsend@cornell.edu)