LUCAS WEBB

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EDUCATION

Phillips Exeter Academy Exeter, NH
Higher Honors *2017*

- AP Tests: Calculus BC (5), Physics C: Mechanics (5), Physics C: Electricity/Magnetism (5), Computer Science (4)
- SAT II Subject Tests: Math 2 (800), Physics (800)
- ACT: 31

SKILLS

Computer Languages	Java, Python, HTML5/JavaScript, Arduino (C), Processing (Java)
Tools	LaTeX, Excel, MatLab, Photoshop

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Exonian Online	Board member for school newspaper (Developer)
Peer Tutoring	Tutor in math, physics, and computer science 2 hours per week
Junior Computer Programmers	Teach elementary schoolers how to program
Engineering Club	Built RC plane from scratch, potato cannon, hover-board
Enviromental Proctor	Promote environmental awareness on school campus
Student Council	Elected as Day Student Representative
JV Cross-Country, Varsity Cycling	Participated in each for all three years
Ski Club	Cohead, in charge of planning trips and logistics

RELEVANT COURSEWORK

Computer Science *Projects supplied upon request*

- CSC 315, Algorithms and Software Creation: Worked with java to study algorithms and object oriented programming. Course culminated in a game design project. I coded a blackjack simulator from scratch.
- CSC 420, Data Structures and Algorithms: Worked with Java to study classic data structures and sorting/searching algorithms. Course culminated in a final project in which a physics simulator was coded.
- CSC 490, Selected Topics, Graphics: Worked with processing to explore fundamental algorithms such as Bresenham's Line algorithm. Worked with OpenGL and Java to produce VoxelWorld, a simple recreation of Minecraft.
- CSC 490, Selected Topics, Physical Electronics: Worked with Arduinos to explore fundamental relationship between computers and physical electronics. Created a final project which used camera object tracking and servo motors to balance a ball in the center of a platform.

EXPERIENCE

UNH Living Bridge Project, Department of Civil Engineering June 2016 - Present
Paid Intern *Durham, NH*

- Worked with MatLab to analyze video feed from Memorial Bridge to track cars and trucks.
- Worked with HTML and JavaScript to update project website.
- Worked with GoPros and MatLab to perform strain tests on curved metal objects.