**Aaron Bowen**

*I have a passion for creating the future.*

Tufts University • 363 Hillsides • Medford, MA 02155 • (480) 442 0428 • aaron.bowen@tufts.edu

**EDUCATION Tufts University,** Medford, MA

Bachelor of Science in Computer Engineering, May 2017

GPA: 3.48, Dean’s List 3 of 3 semesters

**RELEVANT COURSES** Algorithms, Machine Structure and Assembly Language Programming, Linear Algebra,

General Electronics, Digital Electronics, Differential Equations, Vector Calculus

Audited: Data Structures

**PROJECTS** Collaborated with a team of student entrepreneurs to develop an Android app for college students (self-taught Android development)

Pair-programmed a universal Turing machine emulator with 14 unique instructions

Built a program according to narrow specifications to compress a PPM image by 75% and to decompress it back to its original format

Developed a program to narrow specifications to rotate an image while maintaining good locality

**TECHNICAL SKILLS Languages:**  C, Java, C++, MySQL, SQLite, XML, HTML, VBA

**Development Tools:** RESTful API, GitHub (github.com/aareano), Slim PHP web framework

**Foreign Languages:** Spanish (intermediate), German (intermediate)

**EXPERIENCE Olin College of Engineering REU** Needham, MA ***Undergraduate Engineering Education Researcher*** *Summer of 2014*

* Researched engineering education by collaborating with professionals in the field and compiling literature reviews
* Analyzed data for human research with a small team of students and mentors
* Implemented qualitative and quantitative statistical analysis with R and Excel

**Superior Diesel Inc.** Rhinelander, WI

***Summer Intern*** *Summer of 2013*

* Learned the basic functions of the Purchasing, Engineering, Production, Sales, and Accounting departments by rotating through each
* Self-taught VBA to create Excel macros for the automation of data formatting in several departments and company-wide inventory organization

**Ponsse North America Inc.** Rhinelander, WI

***General Assistant*** *February – June 2013*

* Maintained shop cleanliness and order, and assisted mechanics with Ponsse machine repair (large industrial forest harvesters)

**Michigan Tech. University – Kemp Natural Resources Station** Woodruff, WI

***Shoreline Restoration Ecologist*** *Summer of 2012*

* Gathered forest measurements and wildlife data for large database.
* Planting vegetation and employed erosion control

**ACTIVITIES Tufts Engineering Mentors,** Assistant Director of Operations

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**REFERENCES Debbie Chachra, Ph.D. – Research Mentor, Associate Professor of Materials Science**

Telephone: (781) 292 2546 Email: [debbie.chachra@olin.edu](mailto:debbie.chachra@olin.edu)

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Needham, MA 02492

**Sheryl Seefeldt – Superior Diesel Inc. Intern Coordinator**

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Rhinelander, WI 54501

**David Ditzler – Rhinelander High School Principal**

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