

## Josephine Kates

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Natick, MA 01760

### EDUCATION

**Olin College of Engineering**      **Needham, MA**      May 2019

Candidate for Bachelor of Science in Engineering; GPA available in May 2016

Recipient of 4-year, 50% Olin Merit Scholarship

- *Coursework includes:* Principles of Biology, Quantum Physics, Design Nature, Modeling and Simulation of Physical World, History of Technology, AP Computer Science.  
(\*currently enrolled).

**Natick High School**      **Natick, MA**      June 2015

Honors Diploma, Graduated 2/297, National Merit Finalist

### EXPERIENCE

**Olin College**      Needham, MA

***Introduction to Mechanical Prototyping - Course Project***      Fall 2015

- Collaborated with users to manufacture soft tissue grips for use in an *Instron* machine during semester-long project
- Designed prototypes, machined basic components, managed discovery phase of project, and presented final report at end of semester to classmates, faculty and external guests

***Physics E & M – Course Project***      Fall 2015

- Designed and tested circuit to run electrical pulse simulator

**University of North Texas**      **Denton, TX**

***Research Intern***

February – August 2014

- Investigated water on thin alumina films and cooperative effect; under direction of Dr. J. A. Smith, Professor of Chemistry

**ACME Computer Consulting**      **Natick, MA**      September 2014 – present

- Founded computer consulting business, serving individual and business clients, with annual gross revenues of \$10K; specialize in database development, systems set-up and data recovery

### LEADERSHIP AND ACTIVITIES

**SERV**      **Olin College**      Fall 2015

- Refurbish and distribute previously owned computers to qualifying Needham residents

**E-discovery!**      **Olin College**      Fall 2015

- One of two student members on school-wide committee that brought Kofi Annan, Secretary-General of the United Nations, to campus at a semi-annual college event

**Volunteer**      **Natick High School**

- Class Treasurer      September 2014 – May 2015
- Tutor 6<sup>th</sup> graders in math at Powell Elementary School, Needham, MA      Fall 2013
- Habitat for Humanity – participated in two home builds in the Metro Boston area      Fall 2013

### SKILLS

- Computer: LaTeX, Adobe Photoshop, SolidWorks, MatLab, Maple, PSpice, Java, C#
- Machine Shop: Mill, lathe, drill press, band saws
- Language: Conversant in French, Fluent in Spanish