Thomas ("TJ") Burns

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EDUCATION

Massachusetts Institute of Technology - Cambridge, MA

June 2017

Candidate for B.S. in Mechanical Engineering GPA: 4.5/5.0

- Minor in Brain & Cognitive Sciences
- Relevant Completed Coursework: Numerical Computation for Mechanical Engineers (MATLAB), Dynamics, Mechanics I, Materials, Differential Equations, Intro to Design
- Spring Semester Relevant Projected Coursework: Intro to Computer Science (Python), Systems
 & Controls, Design & Manufacturing, Fluid Dynamics, Electronics for Mechanical Systems

Mount Sinai High School - Mt. Sinai, NY

June 2013

GPA: 98.6/100, SAT Math: 770, ACT 33

• Superintendents List, National Honor Society, AP Scholar with Distinction

EXPERIENCE

Institute for Soldier Nanotechnologies - Cambridge, MA

Undergraduate Researcher, Elman Group

Jan 2015-Present

- Project Title: Functional Micro Dispensers.
- Objective is to design, assemble, and test 3D printed cartridges used by soldiers to repel diseasecarrying insects.
- Analyze data and find optimal release rate of chemicals.

American Environments Company, Inc. - Medford, NY

Intern

June 2014 – Aug 2014

- Designed set-ups to test aircraft engine parts under various conditions.
- Built & tested Fire, Water, Sand, Shock, Hydraulics, Impulse, Hot Air and Endurance set-ups.

National Computerized Agencies, Inc. - Coram, NY

Asst. Bookkeeper

(summers) May 2010 – Sep 2013

Responsible for entering and organizing client and accounting data.

LEADERSHIP & ACTIVITIES

MIT Varsity Football Team - Cambridge, MA
MIT Varsity Lacrosse Team - Cambridge, MA

Mount Sinai Varsity Lacrosse: Team Captain - Mt. Sinai, NY

Mount Sinai Varsity Football: Team Captain Mt. Sinai, NY

Sep 2010 – June 2013

September 2013 – May 2014

September 2013 – May 2014

September 2013 – May 2014

September 2013 – June 2013

Skills & Interests

- Computer: Proficient: MATLAB, Microsoft Office, Solidworks. Familiar: Java, C++, Python, AutoCAD
- Machine Shop: Band Saw, Lathe, Mill, (MIG) Welding, Grind Wheel, Steel Piping, 3D Printing
- Interests: Football, Lacrosse, Snowboarding, Surfing, Reading