

# Aaron N. Fryman

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## Objective

Secure a full-time position or a summer internship that could lead to a full-time position in electrical engineering or computer science research and development

## Education

### **MASSACHUSETTS INSTITUTE OF TECHNOLOGY – CAMBRIDGE, MA**

Candidate for Bachelor of Science in Electrical Engineering and Computer Science, June 2013

GPA: 4.1/5.0 (3.1/4.0). SAT: 2060 (R: 720 M: 680 W: 660)

Past and ongoing coursework includes machine vision, circuits, algorithmic design, computation structures, discrete mathematics, multivariable calculus, differential equations, linear algebra, psychology, and cognitive science

## Technical Work Experience

### **UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM – MIT**

Researcher for Professor Ann Graybiel, McGovern Institute (Sept. 2011-Aug. 2012)

- Designed and implemented clustering algorithm for neuronal spike data assignment problem that automated the multi-hour process of analyzing a single rat's neuronal recordings
- Developed data analysis preprocessing algorithm that reordered and standardized behavioral data

Researcher for Professors Tomas Lozano-Perez and Leslie Kaelbling, Computer Science and Artificial Intelligence Lab (CSAIL) (Feb. 2011-Sept. 2011)

- Constructed table recognition algorithm that was incorporated into an object recognition system
- Robot was able to recognize and track the table over time and with considerably noisy data

### **ALTEC INDUSTRIES – BURNSVILLE, NC**

Manufacturing and Design Engineering Intern (June 2010-Aug. 2010)

- Collected and analyzed timing data related to the plant's production line
- Created standard evaluation protocols for the design engineering department

## Non-Technical Work Experience

### **UNDERGRADUATE DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE - MIT**

Tour Guide (June 2012-Present)

- Conduct tours of MIT for high school students and their families with an emphasis on the EECS department
- Provide candid, friendly information while maintaining a professional attitude

### **MASSACHUSETTS INSTITUTE OF TECHNOLOGY OFFICE OF ADMISSIONS - MIT**

Summer Intern (June 2011-Sept. 2011)

- Ran the check-in process for information sessions and answered questions as needed

## Skills and Qualifications

- Proficient in Python, MATLAB, and LaTeX; basic knowledge of ROS, Java, C++, and Solidworks
- Strong technical communication skills developed through coordinating interdisciplinary research efforts