Matthew Brucker

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Objective: To apply my robotics, electronics, programming, and security experience through real-world applications in internships.

EDUCATION

Olin College of Engineering, Needham, MA, Major: Computer/Electrical Engineering (2016 – Present)

Ankeny High School, Ankeny, IA (Graduated June 2016, 3.98 GPA)

Des Moines Area Community College (dual-enrollment)**,** Ankeny, IA (2014-2016, 4.0 GPA, 43 credits)

Relevant Courses:

- Electronic Circuit Analysis*, Networking Technologies*, Microcontrollers*, Robotics*, AP Computer Science, AP Calculus AB, Visual Basic (* indicates courses taken at DMACC)

EXPERIENCE

- Captain, Member, *FIRST* **Robotics Competition** team (2012 – present)
    - Managed 6-week robot build project with a team of 30
    - Developed autonomous vision-tracking programs
    - Organized and implemented team outreach events within the community
- Captain, **Ankeny High School Robotics** team (2014 – present)
    - Created comprehensive business plan for team sustainability
    - Taught control systems to younger students
- **Summer STEM Camp Instructor,** Carl Sandburg College, Galesburg IL (2012 – 2013)
    - Developed and taught programming curriculum for elementary-school students
    - Assisted with engineering classes and activities
- *FIRST* Lego League **middle-school robotics team mentor** (2013 – 2015)
    - Independently mentored three middle-school robotics teams in programming and robot design
- **Information Security Intern**, Dwolla (2016)
    - Tested and deployed open-source security tools for security testing and file integrity monitoring
    - Wrote Python scripts to improve network security internally and in AWS
    - Improved security policies and practices

AWARDS

- National Merit Scholar (2016)
- U.S. Presidential Scholar Candidate (2016)
- Iowa Governor's Scholar (2016)
- Recognition of Excellence, Ankeny Board of Education (2016)
    - Awarded for achieving perfect ACT and SAT scores in 2015.

SKILLS

- **Programming:** Python, Java, C++, Android Studio
- **Technology:** Arduino, Git, Amazon Web Services (AWS), Linux/CentOS, OpenCV, FANUC Robotics,
- **Design:** Autodesk Inventor, Wordpress, GIMP, Sony Vegas, Inkscape