

# Jason Cheng

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## Education History

- Iowa State University**, Ames, Iowa Graduating May 2020  
» *BS Electrical Engineering with a Minor in French Language*  
» Junior Standing, GPA 3.22
- University of Northern Iowa**, Cedar Falls, Iowa Jan. 2015 - May 2016  
» *Non Degree Computer Science*, GPA 3.700  
» Major Courses - Data Structures, Discrete Structures, Computer Organization

## Work Experience

- Ames Music Studios**, Ames, IA – *Music Instructor* January 2018-Present  
» Developed and implemented music curriculum for private lessons
- Workiva**, Ames, IA - *Software Development Intern* May 2017-August 2017  
» Developed internal product release software as part of the release management team  
» Developed automated release processes with Python and Javascript in a full stack methodology  
» Extensively worked with Google App Engine and SQL Databases for release tracking  
» Lead transition from SQL to Firebase databases
- University of Northern Iowa**, Cedar Falls, IA - *Research Assistant* June 2014–August 2016  
» Supervised undergraduate lab, collected, analyzed, and graphed numerical temperature based data  
» Published in NanoLetters (DOI: 10.1021/acs.nanolett.5b04925)

## Campus Involvement - Iowa State University

- PrISum Solar Car** August 2016 - Present  
» Designed and tested custom circuit boards as Hardware Director  
» Implemented organizational systems and managed groups as Project Manager  
» Represented PrISum in Australia as electrical hardware/software support and strategist  
» Worked with industry partners to advance and better improve systems
- Laboratory of Temporal Logic** December 2016-Present  
» Created and assisted with databases and documentation for UAV applications  
» Developed software using Neo4J graph databases

## Volunteer Experience

- FIRST Robotics** September 2013-Present  
» Organized and ran robotics competitions attracting over 100 participating students, including technical workshops on software debugging and mechanical design in America and China  
» Diagnosed and repaired communications and control systems issues in high stress environments
- University of Northern Iowa Robotics/Electronics Lab** June 2014-July 2016  
» Lead workshops for high school aged students on technical skills such as programming and soldering  
» Integrated electronic and mechanical systems on real world problems, including solar irrigation systems

## Skills & Qualifications

- Robotic programming experience C, C++, LabView, and Java
- Professional experience in Python and Javascript
- Experience with Agile development and software version control, using Jira, Git, Bitbucket, and others
- Advanced software skills, including Altium, Origin Graphing, PTC Creo, and Autodesk Inventor
- Developer on firstnpsiresiowa.org, creating a firebase database to store and organize scoring data