

# PATRICK BRUCE

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## OBJECTIVE

To secure full time position starting summer of 2021 where I can utilize my diverse experience in Electrical Engineering, Embedded Systems, Machine Learning, and Computer Science to innovate to improve people's lives.

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## EDUCATION

Iowa State University | Ames, Iowa | Expected May 2021

- Bachelor of Science in **Electrical Engineering** | Minors in **Computer Science** and **Philosophy**
- GPA: **3.77** (Highest 2% engineering freshman spring 2018 and on "Dean's List" every semester)

University of Edinburgh | Edinburgh, Scotland | Study Abroad

- Developed skills in cultural adaptability and learned how to effectively work with a diverse teams
- Flexible in the face of pandemic by maintaining commitment to excelling in studies while staying safe

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## SKILLS

Personal Skills: Collaboration, Mentorship, Complex Problem Solving

Languages: C, Java, MATLAB, VBA, Python, and VERILOG HDL

Software: iWork, MS Office, AutoCAD Inventor, TARGET 3001!, Eclipse, and GitHub

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## EXPERIENCE

Emerson Electric | Shakopee, Minnesota

Engineering Co-op | May 2019 - August 2020

- Created a PCB design for a device that simulates an oxygen sensor and a heater control loop to eliminate the safety hazard of using a sensor and heater that reach temperatures of over 700° C
- Developed the "Rosemount Pressure Gauge Cost Savings Calculator" while regularly solicited feedback from representatives across the world and companies areas to ensure it met each of their unique needs (<https://tools.rosemount.com/pressure/roi-calculator/>)

Iowa State University | Ames, Iowa

Engineering Exploration Peer Mentor | August 2020 - Present

- Taught a class of 13 undecided engineers in which they learned about the different engineering fields and opportunities
- 100% of students agreed when anonymously surveyed that I "provided useful information", "facilitated interactions among participants", "was knowledgeable about campus resources", and "was helpful"
- Developed study groups and connected engineering students to establish a 13 strong network of new students

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## ACTIVITIES

Alpha Sigma Phi, President of Scholarship

- Identified need for and developed first-ever study tables that resulted in a 30+ member strong network
- Held one-on-one meetings every other week with new fraternity members and those on academic probation, resulting in an average GPA increase from 2.8 to 3.0
- Led our 80+ members by example by serving on the executive board, taking the leading role in "Yell Like Hell" performance which took first prize, and completing the most hours of service of any member in spring of 2019

Habitat For Humanity

- Took precise measurements to eliminate waste
- Acted with care while installing the finishing fixtures and paint to ensure the family feels welcome as they walk into their new home