**ALICE J**

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**EDUCATION**

**University of Illinois at Urbana-Champaign** Expected May 2024

*Bachelor of Science in Mechanical Engineering* GPA: 3.25/4.00

**Related Coursework:**

Computer Aided Design Heat Transfer Thermodynamics Signal Processing

**TECHNICAL SKILLS**

**CAD:** Inventor, Autodesk, AutoCAD, Fusion360, ANSYS, Fortran, Solidworks, Creo

**Programming Languages:** Java, MATLAB

**Tools:** MIG Welding, Soldering, 3D Printing, Power Tools

**Spoken Languages:** Spanish and English

**WORK EXPERIENCE**

**HVAC For You** Champaign, IL

*Intern*May 2021 – August 2021

* Manufactured air terminal units for 700 supply and exhaust registers using AutoCAD
* Attained load calculations and analysis of HVAC systems for 142,000 square foot office building using Excel
* Troubleshot failures in complex mechanical systems and identified corrective actions
* Communicated with sales engineers and product specialists to develop CAD drawings for bidding and construction
* Prepared reports for clients concluding team’s analysis and presented findings

**PROJECT HIGHLIGHTS**

**AIAA Design Build Fly** August 2020 – December 2021

* Oversaw design of aircraft fuselage
* Drafted engineering drawings in SiemensNX
* Built efficient sturdy mission specific mechanisms

**Mechanical Design Project**   January 2020 – May 2020

* Developed a mechanical sculpture with a timing mechanism using Creo Parametric
* Identified numerical and conceptual position, velocity, acceleration, and dynamic force analysis using MATLAB
* Delegated roles and responsibilities to a team of ten members
* Facilitated weekly team progress reports

**EXTRACURRICULAR ACTIVITIES & LEADERSHIP**

**Society of Women Engineers**  Champaign, IL

*Vice President*August 2021 – Present

* Collaborate with executive board to establish the group’s mission and goal for the school year
* Design project management system to track progress on major group activities
* Facilitate weekly executive board meeting