




Emily Smith

Mechanical Engineer

Dedicated Mechanical Engineering recent graduate with both analytical problem-solving and leadership skills as well as knowledge of multiple CAD applications. Experience includes redesigning a CNC rotary tool changer for MultiCam Inc.

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Awards & Accomplishments

- Faculty Choice Award for Senior Design Project
- UNT Mechanical Engineering Outstanding Senior Award Nominee
- Don E. Edwards Endowed Scholarship

Organizations

- Kappa Mu Epsilon Math Honor Society
 - Served as President
 - Organized events
 - Recruited new members
 - Coordinated with faculty advisor
 - Also served as treasurer
- Society of Women Engineers
- Phi Kappa Phi

Volunteer Activities

- Mentoring 8th grade girls
- Tutoring high school students in math and writing

Hobbies

- Enjoy reading and traveling

Education

Bachelor of Science, Mechanical and Energy Engineering – May 2018
Minor in Business Management

University of North Texas; Denton, TX GPA: 3.94

Bachelor of Science, Mathematics – May 2018

Texas Women's University; Denton, TX GPA: 4.0

Mechanical Engineering Projects

Rotary Tool Changer Design

- Senior Design project working on a team of 5 engineering students for MultiCam Complete CNC Solutions
- Analyzed the cost and design benefits of different designs resulting in optimal solution
- Modeled using SolidWorks
- Created a Bill of Materials and ordered components
- Manufactured the design under budget

Technical Writing Project

- Led a group of 4 students conducting a career survey for a typical Mechanical Engineer
- Researched online Mechanical Engineering salary, levels of education required, typical time in position and other data
- Career analysis included conducting a professional interview and creating presentation material

Aerospace Project

- Performed orbital calculations for real world satellites
- Utilized Matlab to compare coded Runge Kutta numerical approximation for satellite orbit calculations

Software Applications

-PTC Creo Parametric -SolidWorks -AutoCAD
-MATLAB -Microsoft Office

Relevant Coursework

-Technical Writing -Manufacturing Processes -Senior Design
-Machine Elements -System Dynamics & Control

Mechanical Hardware Experience

-Mill & Lathe -TIG Welding -CNC Machines

Work Experience

Texas Woman's University, Denton, TX

Math Tutor

August 2015-May 2018

- Assisted other college students in math at all levels
- Accomplished at putting complex mathematical ideas into basic terms

Mid-Cities Arlington Swimming, Arlington, TX

Swim Instructor

Summer 2014 & 2015

- Beginner and Intermediate Instruction