

Joseph Hanson

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Objective

Full-Time Mechanical Engineering Position

Education

University of Wisconsin - Madison

Bachelors of Science Mechanical Engineering, expected May 2026

Certificate: Computer Sciences

GPA: 3.93/4.0 Dean's Honor List (6/6 Semesters)

Selected Coursework: Intro-Robotics, Intro-Artificial Intelligence, Building User Interfaces

International Education of Students (IES) Abroad – Barcelona, Spain (Fall 2024)

Engineering Experience

Mitsubishi Chemical Advanced Materials, Libertyville, IL

Quality Engineer Intern, June 2024 – August 2024

- Performed in-process and final inspections of high-performance thermoplastic parts using precision measurement equipment and devices
 - Interpreted mechanical design drawings and GD&T and collected necessary data for inspection reports
 - Identified inefficiencies in the production process, then developed and documented standard testing plan procedures
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Other Work Experience

Lake Bluff Park District, Lake Bluff, IL

Senior Lifeguard Manager, May 2023 - August 2023

- Oversaw an aquatics team of 85 lifeguards and guest services employees across the LB Pool and Beach
- Leader of all managers and lifeguards, conducted weekly in-service trainings with all the staff, and organized and taught a week-long certification and recertification of all 60 lifeguards

Assistant Manager & Headguard, May 2021 - August 2022

- Supervised on-shift staff, coordinated opening and closing of our facilities, delegated tasks, evaluated and performance, and solved problems relating to the staff or patrons

Lifeguard, May 2020 - August 2020

Guest Services, May 2019 - August 2019

Skills

Software: SolidWorks 3D CAD, FEA Analysis, MATLAB, ROS, EES, Java, Python, C, C++, Moldex3D, React, HTML, JavaScript, React Native, Simulink, CAM, Machine Learning, R, Microsoft Office, Git

Technical: Lathe, Mill, Metal Casting, Sheet Metal Forming, Soldering, Material Property Testing, Welding, CMM, Optical Comparator, Profilometer, Multi-Sensor Optical Measurement System, Woodshop Machinery

Other: Spanish (State Commendation Toward Biliteracy), Certified Lifeguard Instructor and Lifeguard with CPR/AED For the Professional Rescuer, First Aid, and Waterfront Skills (*Expired*)

Awards & Honors

Global Pillars: Designing the Sustainable City (IES), National Honors Society, Cum Laude (High School), Illinois State Scholar, 2x Varsity Soccer All-Academic

Activities

Tau Beta Pi (Engineering Society), Intramural Soccer, High School Student Council, Beacon Place, Lake Forest Open Lands, High School Varsity Soccer