

Mike W. Hampton

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WORK EXPERIENCE

Ford Motor Company

Oct 2020 – Present

Pre-Collision Assist Global Feature Owner

Remote

- Lead engineer for Autonomous Emergency Braking (AEB) and Forward Collision Warning (FCW) on the 4+ million Ford and Lincoln vehicles sold annually worldwide.
- Promoted in 2022 from ownership of Pedestrian and Cyclist detection to Vehicle target responsibility.
- Drove cross-functional development to meet evolving safety regulations while minimizing false positives and nuisance interventions.
- Spearheaded migration from Simulink to C++ implementation for long-term scalability.
- Helped Ford earn multiple NHTSA Top Safety Picks and 5-Star Euro NCAP ratings; recognized with 4x Ford Recognition Awards and contributed to Henry Ford Technology Award-winning Intersection Assist launch.

Parallax Hearing Company

Summer 2019

Software Engineering Intern

Atlanta, GA

- Co-developed a mobile app that processed and filtered sound to replace the microphone and processor currently used in traditional cochlear implant devices. Used Java for the UI and C++ to filter sound inputs in real time with fastest audio latency in the industry.

Control and Energy System Center

Dec 2017 - May 2019

Undergraduate Research Assistant

Cleveland, OH

- Led a research project under Dr. Mario Garcia-Sanz applying Quantitative Feedback Theory to wind turbine blade pitch control; developed a Matlab-Simulink controller integrated with NREL's OpenFAST, culminating in the creation of ARPA-E's \$175K ATLAS Challenge competition.

NASA Glenn Research Center

Summer 2017

Maintenance and Reliability Engineering Intern

Cleveland, OH

- Used the IBM Maximo Database software to develop and grow a predictive maintenance program for NASA's testing facilities.

Lenox Industrial Tools

Summers 2015 & 2016

Maintenance and Reliability Engineering Intern

East Longmeadow, MA

- Wrote and implemented a worker-efficiency reporting program in Visual Basic for Applications that is still used in production today and yields an estimated savings of \$300,000 annually.

EDUCATION

University of Michigan

September, 2020

M.S. Mechanical Engineering - GPA: 4.0/4.0

Ann Arbor, MI

Case Western Reserve University

September, 2019

B.S. Mechanical Engineering - GPA 3.9/4.0, Magna Cum Laude

Cleveland, OH

- Tau Beta Pi Honors Society, Fred Hale Vose Award for Demonstration of Professional Leadership in Engineering, Dean's List all semesters, Lead - Labre Homeless Ministry, Teacher's Assistant - Calculus 1 & 2

SKILLS & INTERESTS

- **Programming:** Matlab, Simulink, Python, C++, Visual Basic, Git, Arduino IDE, Visual Studio.
- **Other:** Excel, Word, PowerPoint, Jira, SAFe, MiniTab, IBM Maximo, SolidWorks, AutoCAD, OpenFAST.
- **Interests:** Rock Climbing, Endurance Racing, Traveling, Reading, Volunteering with underserved, Sustainability