



LEVI ERICKSON

MS MECHANICAL ENGINEERING

Timeline of Experience & Education

CONTACT

To protect my personal information, this content is removed. Please see the **Contact** tab above.

Thank you!

TECHNICAL SKILLS

- Design: Creo Parametric (ProE), Inventor, AutoCad, GD&T, DFM, FMEA, FEA, Blender, Unity
- Automation: PLC Programming, HMI Design, Vision Systems, 6 DOF Robots
- Prototyping: Rapid Prototyping, Laser Cutting, 3D Printing, Microcontrollers, Digital Simulation, VR
- R&D: Design of Experiments (DOE), Product Development, UI/UX Testing, HCI, Technical Writing
- Process Improvement: Kaizen Methodology, Lean Manufacturing, Continuous Improvement, Project & Budget Management
- Coding & Data Analysis: C++, C#, Python, DAQ, HTML, CSS, PHP
- People Development: Training Curriculum Development, Mentoring, Onboarding
- Language: Japanese (Advanced), English (Native)
- General: Microsoft Office Suite, Adobe Suite, ISO 9001, SAP, Jira

PUBLICATION & AWARDS

- "Towards Modeling of Virtual Reality Welding Simulators to Promote Accessible and Scalable Training" CHI, April 2022 (Top HCI Journal)
- "Applied Virtual Reality Training for Scalable Skill Acquisition in Hand Tool Focused Trades" Thesis
- 2022 Estus H. and Vashti L. Magoon Award for Excellence in Teaching - Certificate and \$2000

ABOUT ME

Since I began my career as a Mechanical Engineer, I have had the opportunity to learn Japanese manufacturing ideology, to teach college level engineering students, conduct research published in a tier 1 journal, and contribute to a global automotive manufacturer. I believe in data-driven decision making, and fostering a positive, professional working environment. I am a CAD expert and enjoy programming, but also like getting hands on and turning the virtual world into reality.

SUBARU SUBARU OF INDIANA AUTOMOTIVE (SIA)

WEST LAFAYETTE, IN

PROCESS / NEW MODEL DEVELOPMENT ENGINEER

Current Position

- SIA is the only manufacturer of Subaru cars outside of Japan, currently producing the Outback, Crosstrek, Ascent, and Legacy models. SIA was the first zero-landfill auto manufacturer in the US.
- Primary engineer for Body Shop Door, Hood, and Rear Gate Lines
- Pilot Team Lead - Covering all New Model Development (NMD) activities.
- Weekly activities include: Project management for NMD targets, improvements for dimensional accuracy & process reliability, and design for jig & process modifications.
- With Subaru, I have managed budgets of up to \$975k, traveled to Japan for equipment buyoffs, mentored new engineers, and led preparations for the next model launch. This experience has furthered my technical, leadership, and cross-cultural collaboration skills while adding my contribution to high-quality and reliable vehicles.

August 2023

PURDUE UNIVERSITY

3.61 GPA - WEST LAFAYETTE, IN

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

May 2023

- Purdue Graduate Engineering Program is ranked 4th nationally
- Convergence Design Lab - Research focused on HCI, XR, and learning science
- Lab Instructor ME 444: CAD & Prototyping (4 semesters - 2021 & 2022)
- Coach for Gifted Education Research and Resource Institute (GER²I) Youth Program
- Teaching Assistant ME 270: Statics (Fall 2020)

August 2020

NIPPON STEEL NIPPON STEEL PIPE AMERICA (NSPA)

SEYMOUR, IN

MECHANICAL ENGINEER

August 2020

- Nippon Steel is the 4th largest steel supplier in the world. NSPA, a subsidiary of Nippon Steel, is an automotive pipe and tube supplier. Parts manufactured at NSPA are used for, among other things, shock absorbers, impact beams, and bushings.
- Lead mechanical engineer for finishing departments, overseeing cutting and chamfering operations. Attended daily quality and management meetings.
- Learned Kaizen methodology and the Toyota Production System, troubleshot electrical, mechanical, and PLC problems, worked on yield and process improvements.

April 2018

NORTH DAKOTA STATE UNIVERSITY (NDSU)

3.51 GPA - FARGO, ND

Fall 2017

- Bachelor of Science in Mechanical Engineering and International Studies

Fall 2012

- Minor in Physics

KANDA UNIVERSITY OF INTERNATIONAL STUDIES

3.93 GPA - CHIBA, JAPAN

14' 15' Academic Year

- Japanese Language and Culture Program, JLPT N3 Certification
- 神田外語大学 - 日本語能力試験 N3