

Christian Strommen

Minneapolis, Minnesota

cpstrommen@gmail.com

[LinkedIn](#)

[GitHub](#)

[Website](#)

Experience

MAY 2022 – SEPTEMBER 2022

TESLA - BROOKLYN PARK, MN – *AUTOMATION CONTROLS ENGINEERING INTERN*

- Developed automated robotic production systems for automotive manufacturing
- Programmed Rockwell and Siemens PLCs for industrial control and integration
- Optimized industrial networking for cross-system compatibility

MARCH 2021 - MAY 2022

NORTECH SYSTEMS - MAPLE GROVE, MN - *AUTOMATION ENGINEERING INTERN*

- Programmed autonomous cobot-style robotic systems for precise manufacturing
- Reduced cycle times of production lines by 35% while decreasing labor costs by 25%
- Designed and implemented an automation process development and implementation framework

MAY 2019 - SEPTEMBER 2019

MINNETRONIX MEDICAL - SAINT PAUL, MN - *MECHANICAL DESIGN ENGINEERING INTERN*

- Designed biocompatible parts for intracranial neuro therapy devices ([device patent](#))
- Developed CNC machining processes for rapid injection mold tooling design
- Wrote firmware for 3D printers in C++ to expand material capability and quality

MAY 2017 - SEPTEMBER 2018

MINNETRONIX - SAINT PAUL, MN - *MECHANICAL ENGINEERING INTERN*

- Designed test fixtures for verification COMSOL thermal fluid flow simulations
- Built GRBL gantry robotic systems for micron-scale adhesive application
- Built laser measurement test fixtures for product quality and calibration

Education

AUGUST 2020 - MAY 2024

UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MN - *B.S. MECHANICAL ENGINEERING*

Projects

- 3D printing hardware and firmware for enterprise capabilities on inexpensive printers
- Virtualization and containerization for web deployments using Docker and Kubernetes
- Optimizing machine learning workloads for arm64 processors using VQGAN and CLIP
- RFID chicken tracking system for our small hobby farm
- Autonomous racing drones for high-speed cinematography

Technical Skills

- Mechanical design using SOLIDWORKS, Fusion360, PTC Creo, and Autodesk Eagle
- Software development for microcontrollers in C++, Java, and Python
- PLC programming in Siemens STEP/TIA and Rockwell Studio
- 3D printing and CNC machining using CAD/CAM software
- Linux development for open source blockchain, machine learning, and Docker