

# Joe Von Schoppe

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## EDUCATION

### B.S. Mechanical Engineering

### M.S. Mechanical Engineering

Boston University  
2015 – 2020

## SKILLS

### Engineering & Design

CAD, CAM, GD&T, DFM, DFA,  
Embedded Software

### Prototyping

CNC Machining, 3D Printing, Laser  
Cutting, Silicone Molding

### Manufacturing

Injection Molding, Cleanroom Processing,  
GMP

### Biotech & Microfluidics

Polymer Bonding, Material Selection, Thin  
Films, Cell Culture, Electroporation,  
Sterilization, Surface Modification

### Research & Development

Experimental Design, Data Analysis,  
CFD, AI Tools

### Operations

Vendor Management, Technician Training,  
Procedure Creation

## SUMMARY

Hands-on engineer with a proven track record leading cross-functional engineering efforts from concept through production, including system design, rapid prototyping, process development, equipment integration, and technical strategy.

## EXPERIENCE

### Senior Process Engineer, Lucid Motors

09/2025 – Present

- Led cross-functional initiatives spanning design, manufacturing, controls, software, data, and operations teams to support development and deployment of advanced battery manufacturing processes
- Partnered with design engineers to provide manufacturability, reliability, and process capability feedback throughout product development

### R&D Engineer, Wainamics

02/2025 – 07/2025

- Led experiments to optimize device performance and manufacturing techniques
- Integrated multi-disciplinary insights into novel lab-on-a-chip solutions
- Delivered results to clients with clarity and technical precision

### Mechanical Engineer, Fikst

02/2021 – 01/2024

- Designed and implemented quality assurance protocols for prototype and production-stage devices
- Led technician training programs for lab and production environments
- Managed verification and validation activities from concept to commercial release
- Designed and tested microfluidic cartridge and instrument systems for research and diagnostic applications
- Oversaw vendor selection, part procurement, and supplier quality control

### Laboratory Assistant, Boston University

01/2018 – 05/2020

- Processed silicon wafers into microfluidic chips
- Chip spectroscopy using optical and electron microscopes
- Designed and fabricated experiment fixtures

### Mentor, BUA FIRST Robotics

09/2015 – 05/2018

- Guided students through design, fabrication, and integration of competitive robotics systems
- Provided instruction on CNC machining, mechanical assembly, and system testing