





# Emma Walker

## Mechanical Design Engineer

Mechanical design engineer with four years of experience creating precision components for automotive applications. Expertise in 3D CAD, FEA, and design for manufacturability.

### CONTACT

-  (123) 456-7890
-  email@example.com
-  LinkedIn | Portfolio
-  City, State, ZIP code

### KEY SKILLS

- CATIA V5 & SolidWorks
- Finite Element Analysis (ANSYS)
- GD&T & DFMA

### EDUCATION

B.S. in Mechanical Engineering in  
Wayne State University  
May 2018

## PROFESSIONAL EXPERIENCE

Mechanical Design Engineer | DriveLine Corp., Detroit, MI  
March 2020 – August 2022

- Developed suspension bracket designs in CATIA, improving load distribution by 20%
- Performed FEA on 30+ parts, reducing weight by 8% without compromising strength
- Collaborated with suppliers to optimize designs for mass production, cutting tooling cost by \$50K

Design Engineer I | Metro Auto Components, Dearborn, MI  
July 2018 – February 2020

- Updated brake caliper housings to meet new thermal requirements, reducing overheating incidents by 30%
- Created detailed BOMs and GD&T drawings that improved shop-floor throughput by 15%

## CERTIFICATIONS

- Certified SolidWorks Professional (CSWP), June 2019