

Jacob Redd

I'm an innovator, engineer, and problem solver

Livonia, MI

-Email me on Indeed: <http://www.indeed.com/r/Jacob-Redd/e17f9c0c9516e2b8>

I have a diverse skill set that enables me to tackle problems from many angles and I can offer conventional and unconventional solutions that perform. I have many interests that have given me personal experience and exposure to many industries. I view every problem as being solvable and every inefficiency can be improved. Sometimes it's just how you look at the problem.

Willing to relocate: Anywhere

Work Experience

Product Development Engineer

Ford Motor Company - Dearborn, MI

September 2020 to Present

Brakes Engineering (Variable and Fixed)

- Support development of the S650 (7th generation Mustang) Electric Park Brake (EPB) or Electric Drift Brake
- S650 quality lead and warranty specialist
- S650 product-launch lead
- Prevented serious brake hose recall that would have effected over 60,000 vehicles
- D&R engineer for Mustang, Explorer, and Aviator EAPM (Electronic Accelerator Pedal Module) and brake/clutch pedals
- Support brake-tube, hose, WSS, and pedal D&Rs
- Durability vehicle torque auditor
- Prototype vehicle sign-off coordinator

Ford Performance (Chassis Engineering)

- P702 (3rd gen Raptor and Raptor R) Suspension Quality Lead - Worked with D&R to ensure high suspension-life through spring performance data acquisition and analysis
- Developed novel measurement device to quickly take ride height measurements, greatly reducing measurement times and improving accuracy
- P702 product-launch lead
- Discovered and reported flaw in F-150 assembly line that was causing cosmetic damage to every engine assembly on the line

GTDS (Research and Advanced Engineering)

- Support future brake technology R&D

Internship

University of Dundee, Drug Discovery Unit - Dundee

May 2016 to July 2016

Mechanical R&D Lead

- Support design improvements, prototyping, and testing for High-Throughput Screening (HTS) devices

Education

Bachelor's degree in Mechanical Engineering

Brigham Young University-Provo - Provo, UT

August 2015 to April 2020

Associate's degree in Computer Aided Design and Drafting

Eastern Arizona College - Thatcher, AZ

August 2012 to May 2015

Skills

- Mechanical engineering
- Mechanical design
- Mechanical knowledge
- CAD
- SolidWorks
- GD&T
- Root cause analysis
- Programmable logic controllers
- Manufacturing
- Drafting
- AutoCAD
- System design
- Assembly
- Machining
- Product development
- Autodesk Inventor
- Data collection
- Mechatronics
- Leadership
- Welding
- 3D Printing
- Prototyping
- Programming
- Blacksmithing
- Rotational Plastic Molding
- Mechanic experience
- Innovation

- Construction
- Arduino
- PCB Design
- CNC

Languages

- English - Fluent
- Spanish - Intermediate