

Matthew Forsyth

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Experience

MAY 2021 – CURRENT

Product Interface Engineer / General Motors / Warren, MI

- Analyze existing vehicle body structure designs to determine if weld gun access/weldability and overall manufacturability meet General Motors best practices
- Work with manufacturing and design engineers to determine the feasibility of designed parts
- Maintain a living document containing current part versions/relevant information that is used for ordering the correct materials to the plant prior to full scale production
- Took over the maintenance and improvement of existing, widely used excel-based utilities formerly created by a Product Interface Manager
- Create new, productivity-improving excel-based utilities utilizing the visual basic programming language

DECEMBER 2020 – APRIL 2021

Mechanical Engineer / MP Machinery & Testing / State College, PA

- Used SolidWorks to alter the company's existing machines to work with custom applications
- Designed a vacuum system to be used with a Charpy impact test machine to contain radioactive shards of metal that break off from the two specimen halves

AUGUST 2019 – NOVEMBER 2020

Technical Solutions Engineer / Epic Systems / Verona, WI

- Working in partnership with customer IT to troubleshoot build- and code-related issues within Epic's Health Information Management (HIM) and Patient Identification (Identity) applications
- Created scripts using the MUMPS (M) programming language to search large volumes of data from a NoSQL database
- Used the M programming language to incorporate customer-suggested improvements into the software

JUNE 2018 – AUGUST 2018

Software Engineering Intern / Kohl's / Menomonee Falls, WI

- Utilized Java to help develop the backend of a store associate-facing web application
 - Created a database model and custom endpoints using Spring
 - Queried existing databases using SQL

Education

JANUARY 2022 - PRESENT

M.S.E. in Automotive Engineering

University of Michigan - Dearborn / Dearborn, MI
GPA: 4.00

GRADUATED: MAY 2019

B.S. in Mechanical Engineering & Minor in Computer Science

Michigan State University / East Lansing, MI
GPA: 3.80