

Ideal Role: Mechanical Engineer

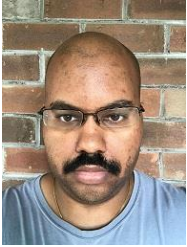
Current Location: Rochester, NY

# Matthew K. Gaber

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My Cell: (585) 485-1827

**\*Please consider me as a diverse candidate: Affirmative-Action hire.\***



**Objective:** To be hired as a Mechanical Engineer. My ideal role would be one in which I'm utilizing CAD and well-defined formula to design products in a good supportive environment. Salary requirements are to be discussed, but within your budget.

**Note:** Gaps in past employment are explained by disability related events. Please remember the laws protecting disabled individuals. I am well recovered and eager to get back to work!

## **Professional Summary:**

- Innovative and detail oriented mechanical engineer with experience in the aerospace, medical, and train manufacturing industry.
- Requirements management experience.
- Well versed in multiple CAD packages. Can provide examples.
- BOM (Bill of Materials) management.
- Experience with FEA software (ANSYS).

## **Testing:**

- SAT I (1/2005): Verbal = 650, Math = 630, Composite = 1280
- GRE (8/2013): Verbal = 153, Math = 152, Composite: 305, Writing = 4.0

## **Skills:**

- **Software:** SolidWorks (Experience: Proficient), AutoDesk Inventor (Experience: Proficient), ProE (Experience: Proficient), CATIA (Experience: Beginner), Microsoft Office Suite (Excel, Word, PowerPoint: Proficient with all), MATLAB/Simulink (Experience: Intermediate), ANSYS (Experience: Intermediate)
- **Equipment:** Mill, Sheet Metal Equipment (Turret Punch Press, Forming Press, Drill Press, Sheet Metal Finishing)

## **Career Experience:**

**New York Air Brake:** Systems Engineer II, Watertown, NY (2014-2015)

- Concept Design Review: Held CDR for project involving upgrade of a converter box. CDR facilitated getting customer needs and wants across to team.
- Cable Installation Drawings: Worked on a standard drawing format for multiple cable drawings.
- Testing: Spent time in lab testing brake system.
- Schematics: Revised brake piping schematics via document revision program.

**Alstom – Transport:** Mechanical Engineer I, Hornell, NY (2013-2014)

- Field Modification Instructions: Created numerous FMIs to document/delineate modifications to traction inverter cases.
- ECs/DQs/Redlines: Creation of numerous engineering changes and deviation queries to properly document design changes to traction inverter cases and traction motors.
- Wire lists: Composed wire lists to lay out wiring for traction inverter cases.
- Requirements Management: Managing specifications flow-down for a Light Rail Vehicle overhaul for the city of Baltimore for all rail vehicle systems (HVAC, Propulsion, Carbody Structure, Cab Controls, Trucks, Couplers, Lighting, etc.)
- Interiors Liaison: Liaison between French and US sites for specifications for Light Rail Vehicle for the city of Ottawa. Imbedded in interiors group (Experience with rail transit standards for Floors, Stanchions, Windows, and Seats). Familiar with ADA requirements for interiors.
- Wrecked Vehicle: Composed a BOM of damaged components for a wrecked vehicle to present to customer. Laid ground work for \$0.5 million repair. Most of damage was in the Operator's Cab.

**Parker Hannifin – Aerospace Group:** Manufacturing Engineer I, Glendale, AZ (2011-2012)

- Drawing/Routing/Procedures: Creation/modification of numerous drawings, routings, and procedures via CADAM and PM.
- Tool Room Layout: Planned floor layout for tool room equipment using Visio. Organized transfer of equipment to room.
- Non-Destructive Testing: Experience with NDT (X-Ray and Fluorescent Particle Inspection Testing).
- Spray Profile Testing: Experience with fuel nozzle spray profile testing.

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**Internship: UTC - Hamilton Sundstrand**, Windsor Locks, CT

(2010)

- Design: Designed three fixtures utilizing ProE to assist in disassembly/modification of two types of valves
- Quality: Performed analysis of spring check load range specifications to ensure proper metrology procedures.
- Repair Processes: Involved with process certification of a Jet Fuel Controller repair.
- Program Exposure: Document Management System (DMS), Interactive Repair Manual (IRM), and via/Documentum.

**Internship: Getinge Sourcing LLC**, Rochester, NY

(2009-2010)

- Data Acquisition: Set-up, ran, and analyzed Food and Drug Administration (FDA) regulated tests on medical sterilizers utilizing excel and proprietary software. Tests and resulting data facilitated the validation and verification of sterilizers.
- Thermocouple Assembly, Set-up, and Calibration: Assembled, Set-up, and Calibrated thermocouples for sterilizer. Thermocouples facilitated acquisition of thermal data.
- Pressure Testing: Various tasks applicable to pressure testing including pipe disassembly/re-assembly and valve swap outs for sterilizer underbody. Tasks facilitated testing of flow and pressure data.
- Product Generation: Modelled a hitch utilizing AutoDesk Inventor for a powered assist vehicle. Hitch facilitated the solution of a customer's problem of loading heavy carts into sterilizer chamber.

### **Education:**

**Rochester Institute of Technology**, Rochester, NY

Bachelor of Science in Mechanical Engineering, Graduated: August 2011