

Entry Level Automation Development and Testing Software Developers

Houston Texas

I was recently informed about the Automation Development position. From the job description I am confident that I can perform any of the duties that are available. I believe that safety and being in an enjoyable work environment is something that should always be looked at. Based on the job description given, I am confident I possess most of required and desired qualifications, as follows:

REQUIRED OR DESIRED QUALIFICATIONS

- Automation Development
- Creation of engineering reports documenting design efforts and results
- Specification and requirements authoring
- Great Communications skills
- Cross-functional team resource management and collaboration

QUALIFYING ACHIEVEMENTS

- Bachelors of Science in Mechanical Engineering

Prairie View A&M University

- Proven success with various teams in many different projects
- Multiple project completion and meeting of various deadlines

Please accept this letter and the accompanying resume as an expression of my interest in the Mechanical Engineer position with your organization. My personal attributes include leadership and sound judgment as well as creativity, analytic and troubleshooting skills. Every project that I have completed consisted of drawing rough sketches from the ground up. There has also been an application of mathematics in every project. My main role was always to do every hand calculation. I interact productively with people from diverse backgrounds. I have a career history of achieving employment goals. I have a history of quality work carried to timely completion. I also have been a reputable trainer and leader in all of the companies that I have been a part of. I am certain I could make significant contributions to your organization, and I would welcome the opportunity to meet with you to discuss how my education and abilities might best be employed by your organization.

Thank you for your consideration. I look forward to your response.

Sincerely,

IBM

Mechanical Engineering • Testing Software Developer • Automation Development

Improved and redesigned an Autonomous Underwater Vehicle, optimized and analyzed a Solar Panel in an award winning effort, also assisted in the design and analysis of a gearbox in a collaborative effort. Successfully reverse engineering of new and used parts and the preparation of make new drawings based upon certain standards.

Education: Prairie View A&M University Bachelors of Science of Mechanical Engineering

Expertise or Core Competencies

Manufacturing	Fatigue and Stress Analysis	Microsoft Project
Design	ANSYS	Operational Qualifications
Automation	JavaScript	AutoCAD
Finite Element Analysis (FEA)	Object Oriented Programming	C++
FMEA	NX11 (Unigraphics)	Project Management
Python (Data Analysis)	Sheet Metal Design	Bill of Materials (BOM)

Industries Worked

Automotive

- Designed a gearbox for the transmission of a car using Siemens NX7 for a collaborative project with PACE for various universities across the world. Transmission was used to be used as part of an assembly of the car.
- My role in the project was to help in the drawings and the gear and ball bearings calculations. Results were that we placed in overall PACE contest. We managed to meet all of the constraints.

Oil and Gas

- Prototyping of Autonomous Underwater Vehicle using Siemens NX7 and ANSYS for stress analysis.
- Utilized various machine tools and welding to fabricate the frame, and calculated the electrical components.
- Usage of Arduino board and C++ programming to allow the vehicle to move on its own in a specific route.
- Assigned role was the connection between the Electrical and Mechanical Engineering teams and I assisted with calculations for both of the teams. This was a collaborative project for future students and we accomplished Designing the prototype of the vehicle as well as the automation, movement underwater of the vehicle.

Energy

- Design and analysis of the Solar Panel using Siemens NX and TeamCenter.
- Our teams role was to design and analyze the connectors for the modular panel using Siemens NX software.
- My role in the project was to assist with the hand calculations and as well as some of the analysis tools used in NX, which include Finite Element Analysis for stress, strain, and deflection.

- An award from PACE was given to us for this project for meeting the time constraints and the utilization of PDM and PLM.

Retail

- Microsoft Word was used for writing documents and papers for a daily log.
- Microsoft Excel used for data and database entry.
- Assisted customers with product knowledge, was speedy and I worked well under pressure.
- Managed a good amount of the area in the store.
- Was responsible for the organization of most of the store.

Information Technology

- PeopleSoft was utilized to track and send jobs to technicians for Houston Community College.
- TeamCenter used to collaborate in the assembly of the solar panel.
- Programming, debugging, and utilization of multiple concepts to maintain large projects.
- Installation of many programs for teachers and administrators.

Professional Experience

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| Project Assistant , Rio Bravo Café and Grill, Fulshear, Texas | 09/2016-03/2018 |
| <ul style="list-style-type: none"> • Identified restaurants repairs, needs and scheduled repair work of hardware systems. • Back of house and front of house maintenance, which included repairs, cleaning, and organization of restaurant. • Assisted customers with menu knowledge, as well as menu pairings and sales. | |
| Project Manager , General Motors, Prairie View, Houston Texas | 08/2008-07/2009 |
| <ul style="list-style-type: none"> • Gearbox design for the transmission of a car using Siemens NX7 for a collaborative project with PAXE for various universities across the world. • Collect and analyzed drawing documents for this project • Perform data analysis with bearing calculations | |
| Project Manager , NAVSEA, Prairie View, Houston Texas | 08/2011-08/2012 |
| <ul style="list-style-type: none"> • Fabrication of an Autonomous Underwater Vehicle using Siemens NX7 and ANSYS for stress analysis. • Perform data analysis with bearing calculations | |
| Project Assistant , Texas Land and Cattle, Fulshear, Texas | 08/2013-08/2014 |
| <ul style="list-style-type: none"> • Sale of menu items and product knowledge • Led a team of about ten to fifteen servers on the floor • Opened and closed the restaurant | |
| Trainer , Outback Steakhouse, Katy, Houston Texas | 09/2009-06/2013 |
| <ul style="list-style-type: none"> • Training of over twenty different servers and staff members, all of which were promoted • Led in sales for twenty months in a row | |

Memberships and Awards

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| National Society of Black Engineers | 08/2000-Now |
| American Society of Mechanical Engineers | 09/2008-Now |
| PACE Award for Solar Panel Design and Analysis | 2008 |
| Red Cross | 2018 |