ENGINEERING INTERN

Omni Powertrain Technologies began supplying power transmission equipment for agricultural machinery in 1958. Today, we are a world class manufacturer supplying mechanical, hydrostatic & electrical powertrain solutions globally for a variety of industries & applications.

Omni Powertrain Solutions has created the most compact, powerful, light-weight axial flux electric powertrains on earth. Innovation is our core value, and whether we are manufacturing mechanical drivelines for agricultural equipment, hydrostatic powertrains for off-highway equipment or state-of-the-art electric powertrain for commercial vehicles and motorsports, we strive to exceed the power and quality demanded by our clients no matter their industry & strive to become a 'One Stop Shop' for all powertrain requirements for our customers.

Omni Powertrain technologies has great opportunities for engineering interns in our Houston, TX facility.

In this role, you will have the opportunity to approach design in unconventional ways, apply your knowledge while working on significant and complex projects, work alongside professionals known for advanced engineering solutions, observe how a successful engineering firm operates, establish ties that could solidify your professional future, and learn within a friendly, supportive environment.

Opportunities for:
Mechanical Engineer
Quality or Industrial Engineering
Electronical or Mechatronics Engineering
Project Management – all engineering tracts

What you will need to Succeed:

- Enrollment in Engineering program from ABET accredited school.
- Completed 3 years of coursework or have a junior standing.
- Minimum GPA of 3.0
- Leadership involvement in extracurricular activities/student organizations.

What sets you apart:

- Strong spoken and written communications skills.
- Excellent organization and time management skills.
- Quick technical comprehension and motivation focused on client outcomes.
- Able to effectively prioritize multiple tasks.
- Effective working individually and within team environments.
- Ability to work independently and as team contributor.

Responsibilities:

- Create 3D models of parts & assemblies.

- Generating sound Manufacturing prints using SolidWorks & AutoCAD.
- Work with fully featured 3D CAD models as well as create 2D drawings or MBD annotations as required and detailed inspection sheets from customer supplied models and requirements.
- Generate ECNs & create drawing revisions.
- Perform all duties as assigned & adhere to OMNI's core values.
- Perform & document necessary simulation & design data.
- An understanding of detail drawing standards and geometric tolerance is essential.
- Inspect products (Gearboxes, Electrical, Hydraulic Motors, Pumps, and Air compressors) and create measurement reports.
- Record, analyze, and report on the outcomes of quality inspections to the Engineering department.
- Conduct teardown of the gearboxes and create teardown reports, including – RCA (Root cause analysis) and corrective action.
- Work directly with customers to understand their quality issues and take the required corrective action.
- Assist in revising and implementing- work instructions and SOPs.

Required Skills:

- SolidWorks
- AutoCAD
- MS Office proficiency
- Effective problem-solving skills.
- Teamwork and collaboration.
- Strong basic engineering skills with extensive knowledge of process engineering
- Anticipate problems and adjust accordingly.
- Strong foundation of engineering fundamentals
- Ability to generate new ideas.
- Good listening and influencing skills.
- Knowledge/Experience in manufacturing is a plus.
- Any prior experience in power electronics would be valuable.
- Experience in Gear design & manufacturing is a plus.
- Knowledge of ANSYS (Stress Analysis) is a plus.
- Knowledge of electric motors and their control systems would be beneficial.
- Experience with electronic kits, particularly using Arduino, would be advantageous.
- Experience managing a lab and overseeing testing-related projects would also be a plus.
- Ability to use measuring devices like gauges, meters, and calipers.
- Ability to lift, carry, push, and pull up to 50 lbs.
- Work in an enclosed, indoor machine shop environment; exposed to dust, heat, humidity, and cold weather conditions dependent on local weather conditions.