



About ThermAvant Technologies

ThermAvant Technologies (ThermAvant) is a fast-growing designer and manufacturer of advanced heat sinks and heat spreaders based on the Oscillating Heat Pipe (OHP) technology and pumped microchannel cold plates for high power density applications. ThermAvant, founded in 2007, operates from a 33,000 sq. ft. facility in Columbia, MO and is AS9100 certified, ITAR compliant and primarily serves the aerospace, defense and opto-electronics sectors.

Role: Manufacturing Engineer

Key Responsibilities

- Oversee the application of engineering support activities in the preparation for production of customer parts and assemblies.
- Develop and execute Production Part Approval Process (PPAP) and Advanced Product Quality Planning (APQP) processes
- Layout Assembly, Integration and Test (AI&T) flow for production parts
- Capture and communicate Declared Material and Process List (DML/PL)
- Establish manufacturing flow and inspection points (KIP/MIP)
- Perform risk reduction in Process Failure Mode Effects Analysis (PFMEA)
- Lend in root cause analysis and create preventative and corrective action plans
- Aid Engineering in creation of production Factory Acceptance Testing (FAT) to ensure compliance with customer's key product characteristics
- Design Control Plans to counteract such issues as counterfeit parts and contamination
- Ensure all manufacturing processes (i.e., welding, heat treat, braze, vacuum furnace, NDT, laser, EDM, etc.) and tooling conform to customer, organizational, and governmental regulations
- Establish and implements process controls
- Ensure that all manufacturing processes produce the highest quality and most cost-effective parts.
- Investigate, analyze and provide solutions to problems for processes and product non-conformance.
- Develop statistical systems to analyze data and specifications to control and continually improve products and processes.
- Assist in responding to customer Request for Quotes (RFQ's)
- Work concurrently with manufacturing and quality to assist with technical needs
- Develop new processes and revise existing processes to facilitate the improvement of production effectiveness
- Support company policy, procedures, and safety policies
- Work with Engineering Manager on implementation of new/revised policies and procedures
- Performs other duties as assigned

Minimum Qualifications:

- Minimum of a Bachelor of Science degree in Mechanical, Industrial Engineering or Manufacturing Engineering from an accredited university

- 3 years of manufacturing engineering experience preferred, with a preference in basic manufacturing operations, machining, forming, welding, brazing and/or heat treat
- Experience outlining manufacturing processes for parts and assemblies and providing work instruction to manufacturing.
- Proven track record of scheduling and organizational skills in order to complete assigned functions.
- Proficient at reading, analyzing and interpreting customer drawings, specifications, procedures, and standards
- Proficiency in MS Office including Word, Excel, PowerPoint and Outlook
- Excellent written and verbal communication skills
- Proficient with computer systems and basic software and Microsoft Office; experience with CAD.
- Ability to interact effectively with all levels of the organization, including internal and external.
- Must be able to manage multiple projects and manage established deadlines.

U.S. Persons only with authorization to process ITAR restricted data

Desirable Skills

- Experience in thermal management or electronics cooling, including two-phase heat transfer
- Experience in the aerospace industry preferred.
- Lean manufacturing experience
- Metal working experience with aluminum, copper, titanium, nickel and superalloys
- Experience in air or spaceborne platforms product development