

MECHANICAL DESIGN ENGINEER



DESCRIPTION

DEFT Dynamics is looking for a skilled engineer to design and prototype electro-mechanical devices. DEFT develops and applies proprietary tools and techniques to rapidly create electronic devices ranging from IoT (internet-of-things) to vehicle stability control to robotic arms. This position will be working under DEFT Senior Embedded Systems Engineer, Kyle Kubik. Our company offers competitive pay, a fun and fast paced work environment, and in-depth training. The DEFT Dynamics research facility is located near Pepper Place in Downtown Birmingham, AL.

The Ideal Candidate

- Is able to independently create complete mechanical systems: concept -> CAD drawing -> CNC machining
- Excited about having a large role with a fast-growing team developing state of the art materials and products
- Self-motivated with the ability to develop and apply new processes and systems

Desired Qualifications

- Bachelor's or Master's degree in Mechanical/Materials/Industrial Engineering
- Experience with CAD software (prefer SolidWorks, SolidEdge, or Fusion360)
- Machine design concepts (material selection for strength/fatigue/cost, fasteners, bearings, O-ring design, etc.)
- Independent ability to prototype using CNC machining (including CAM programming, prefer Fusion360)
- Dedication to high quality work, well thought-out and completed on schedule

Pipeline of Current Projects (Day 1 activities)

- Aerospace qualified high-power LED enclosure and heat sink design/prototype
- IoT devices for molding/milling: (1) wearable sensors, (2) wall-mounted sensors, (3) outdoor industrial beacons
- Robotic arm structures and joints for Robotical.ly

Occupational Details

- Job Type: Full-time, on premises; Normal hours are 8am – 5pm, Monday – Friday.
- Competitive base salary plus opportunities for performance-based compensation and year-end profit-share.

APPLICATION PROCESS

Please Answer the Following

- How many years of CAD experience do you have? CAM experience?
- How many years of Machine Design experience do you have?
- What is the highest level of education you have completed? When did you complete it?

Please Provide

- Resume
- Examples of recent projects that showcase your skills and interests (images/description or demo required)
 - o CAD models that show sound engineering design (2D draft / technical drawings for the same)
 - o CAD models that show creativity and ability to transfer concepts to 3D
 - o CNC/manual machined prototypes cut by the applicant

If interested, please contact:

Austin Gurley – Founder & CTO
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