

Job Title: Technology Associate (Electronics)

Background

HWjunction in FORGE.FACTORY is a IoT makerspace for startups to prototype the hardware and software modules of their IoT product ideas. The infrastructure, equipment and tools, and other resources essential for rapid prototyping is all offered under one-roof in the HWjunction.

Program covering various technologies involved in building an IoT takes place as part of our "Activation" Program. We accelerate hardware startups to build IoT products focussing on few verticals such as healthcare, smart cities, transport, smart industry and consumer electronics. We run programs to activate the ecosystem and enable the community to build hardware devices/products. Our Tech Accelerator Program is aimed at hardware entrepreneurs to accelerate their hardware product development.

We also involve in community activities to support the young graduates in developing required skills for building a hardware prototype and products. We also run Hackathons to activate more startups in the ecosystem and streamline them into our FORGE.FIRST, Tech Accelerator Program and FORGE.FELLOWS program. HWjunction events are run in few colleges and universities to make them aware about latest technology in the IoT space.

Job Description

The job role is to manage the HWjunction and co-ordinate HWjunction related activities. Duties may be carried out as part of a work team or independently.

Duties include but may not be limited to:

1. Supporting Hardware/IoT Startups with the usage of equipment and tools during design and prototyping activities
2. Guiding and assisting hardware startups to build circuits and design PCBs according to industry standards
3. Guiding and assisting startups to use test and measurement equipment to debug/troubleshoot circuits
4. Building prototypes using right development platforms and testing them
5. Building standard PCB layout in tools such as Altium, KiCAD, etc
6. Programming development boards such as Arduino, Raspberry Pi, Cubieboard, TI Launchpad, etc.
7. Gathering requirements for new tools/equipment, designing new programs, designing new Proof of Concepts, etc.
8. Managing stocks of electronic consumables and co-ordinating with Accounts manager for purchase
9. Managing the HWjunction and HWjunction mini in terms of ongoing everyday activities
10. Running session for hardware entrepreneurs to build test benches using NI Labview platform and equipment such as cRIO, RIO, DAQ, etc..
11. Building new sessions/modules for HWjunction

Qualifying Technical Skills

Diploma in Electronics & Communication with sufficient theoretical knowledge or practical experience in any or all of the following:

- Knowledge on programming in different micro-controller architecture/platform
- Electronic circuit & PCB design
- Basic hardware debugging/troubleshooting skills
- NI cRIO, myRIO & DAQ hardware
- Programming - Labview, MATLAB, Embedded C, Arduino
- Solidworks/Fusion 360/any 3D modelling software
- Practical experience with basic electronics lab tools/equipment & supplies, soldering equipment and process
- Ability to read Instruction manuals, Component data sheets, Technical diagrams etc.

Qualifying Soft Skills

- Good verbal & written communication skills in English is an added professional and employment advantage.
- Analytical and Logical reasoning, problem solving orientation and willingness to learn new tools/concepts and continuously enhance skills.
- Prior Internship experience in a corporate/SME work environment shall be duly recognised and preferred.

Eligibility

- Diploma in Electronics & Communication with 3-5 years of industry experience;
- 3 Letters of Personal Reference or Professional Recommendation from past employers, supervisors, or educators/teachers;

Employment Guidelines

Probation

6 months from the date of appointment. Shall be extended in the case of further training and probation required before offering full employment status.

Remuneration

- First 6 months - Upto Rs. 30,000/- per month (Lab Technician Trainee)
- On Confirmation - Upto Rs. 40,000/- per month (Lab Technician Employee)

Service Guarantee

In case of resignation before the period of 1 year from Date of Confirmation, Rs. 1,50,000/- towards recovery of Professional Training and Career Development expenses has to be paid to the company.