

Searching for mechanical engineer for 3d printed enclosure design

Job Description:

Design an electronics enclosure to be 3D printed from a standard hobbyist 3d printer. The enclosure must be designed so that it is robust, quick to assemble, and easy to dismantle for electronics maintenance. The electronics will go in a standard 1U 19" rack. This will involve many prototypes, varying both the mechanical design and different materials. The deliverable will be a documented, manufacturable design of an electronics enclosure with assembly instructions.

Overall Project Purpose:

Create open source/hardware, reproducible, easy to assemble/deploy/maintain product for HiL CI testing. Deploy the HiL CI product at HAW and allow external communities to contribute testing power as well.

Timeframe:

Deliverable should be completed within 2 months of part time work. More projects are available after.

Relevant Skills:

- Familiar with some 3d software such as Solidworks, Fusion 360, Inventor, etc.
- Familiar with 3d printing, professional or hobbyist
- Mechanical intuition, understanding tolerances, clearance needs, plastic deflection, etc.
- Independent problem solver, able to accomplish tasks to specifications themselves

We offer:

- Cross-disciplinary team, this project involves programming, electronics design, mechanical design, network infrastructure
- Lots of autonomy/freedom, it is your choice how to achieve the deliverable and your hours
- Open source/hardware design to show future employers
- Mentorship from both the academic and industrial perspective
- Growth potential, many other related projects in various fields such as PCB design, low/high level programming
- Gain relevant experience working to make something manufacturable
- Compensation depending on experience

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