

Project Title:

Applicant Details

Who are you? Briefly introduce yourselves.

Example: BASTLI is a student electronics lab and component shop at ETH Zurich, offering students a well-equipped electronics lab, parts inventory, and a support point for any electronic and mechanical problems and questions. More details can also be found at www.bastli.ethz.ch.

Project Goals and Target Audience

What is the goal of your project?

Example: The goal is to acquire a rapid prototyping PCB milling machine for the reliable, fast, and largely automated production of PCB prototypes and single pieces. The project would benefit all users of Bastli, currently around # students in Zurich.

Background

How did this project come about?

Example: BASTLI has always produced its own PCBs. Until now, these boards have been created manually using a photochemical process (exposing, developing, etching, and manual drilling). This is a very time-consuming and not very efficient process, as it has significant variations and therefore produces a lot of waste. Additionally, it involves handling chemicals (NaOH, sodium persulfate).

Current Situation

What is the current situation? Is there any prior work? Where does the project stand?

Example: We are therefore considering the acquisition of a professional PCB milling machine, specifically the "SUPER PCB 3000." This machine can produce a complete and professional PCB without human interaction, as it has an automatic tool changer.

We plan to produce two-layer PCBs, with vias created using rivets. Other through-hole methods are currently under consideration. If there is interest, it would theoretically even be possible to upgrade the equipment for the production of 4-layer PCBs in the future.

Outlook

What is the future of the project?

Example: With this machine, Bastli would be able to offer a centralized PCB manufacturing service for students. The availability of a prototyping machine would encourage students to design and produce their own PCBs using modern methods. The quality of BASTLI would significantly increase, and more students could be reached.

Cost and Financing Plan

What are the project costs? How do you plan to allocate the funds? A table can be helpful!

Example: The entire system would cost approximately CHF XXX in initial costs. The D-ITET department and a professorship have agreed to contribute a total of CHF YYY towards the equipment. Now, the remaining CHF ZZZ needs to be raised, and we are therefore applying to the e-na'bel foundation for support.

Timeline

What is your timeline? Are there deadlines? Who is responsible for each step? A table can also be helpful here!

Example: The system acquisition is planned for FS xy. An extensive testing phase will follow in the summer months. A grand opening is planned for September 1st. From HS xy, the system is expected to be operational.