# 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.