# Project proposal

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| --- | --- | --- | --- | --- |
| **Name of Candidates** | **A** | **B** | **C** | **D** |
| **PS Numbers** |  |  |  |  |
| **Name of Mentor – Delivery** | **Sanat Kumar Mishra** | | **PS No 20126697** | |
| **Name of Mentor- GEA** | **YYYY** | | **PS No xxxx** | |
| **Project Period** | **From: November 2020 To: December 2020** | | | |
| **Date of Completion** |  | | | |

### **Project Title**

* Power Supply Design and Prototyping

### **Project DETAILS:**

1. **aim**:

* Power Supply Design and Prototyping

1. **Problem statement:**

* Our testing labs struggle with power supplies. This exercise will get live protos to be used in our labs.

1. **Objectives & Learning outcomes of the project**

* Hardware design
* Simulation
* Schematic Design and Entry in ALTIUM
* Component creation and PCB Design
* Prototyping – Coordinating with vendors for procurement and proto
* Testing
* Documentation – Design documents, Test plan development

1. **Key Deliverables:**

* Design Files
* Simulation Reports
* Design Documents and Test Reports
* Prototypes

1. **Hardware & Software Recommendations**

* Hardware – ALTIUM or any open source CAD tool, LTSPICE (or any equivalent simulation tools)

1. **Weekly Progress (gantt chart)**

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| **Tasks** | **Wk1** | **Wk2** | **Wk3** | **Wk4** | **Wk5** | **Wk6** | **Wk7** | **Wk8** | **Wk9** |
| **Requirement Analysis** | | | | | | | | | |
| **Requirement Analysis and RS preparation** |  |  |  |  |  |  |  |  |  |
| **Design** | | | | | | | | | |
| **Component Selection** |  |  |  |  |  |  |  |  |  |
| **Schematic Design** |  |  |  |  |  |  |  |  |  |
| **Component Creation** |  |  |  |  |  |  |  |  |  |
| **Schematic Entry** |  |  |  |  |  |  |  |  |  |
| **Review** |  |  |  |  |  |  |  |  |  |
| **Review Update** |  |  |  |  |  |  |  |  |  |
| **Placement** |  |  |  |  |  |  |  |  |  |
| **Review** |  |  |  |  |  |  |  |  |  |
| **Review Update** |  |  |  |  |  |  |  |  |  |
| **Routing** |  |  |  |  |  |  |  |  |  |
| **Review** |  |  |  |  |  |  |  |  |  |
| **Review Update** |  |  |  |  |  |  |  |  |  |
| **Gerber Generation, Review and Update** |  |  |  |  |  |  |  |  |  |
| **Prototyping** | | | | | | | | | |
| **Component Procurement** |  |  |  |  |  |  |  |  |  |
| **PCB Fab** |  |  |  |  |  |  |  |  |  |
| **Prototype Assembly** |  |  |  |  |  |  |  |  |  |
| **Documentation** | | | | | | | | | |
| **Hardware Design Document** |  |  |  |  |  |  |  |  |  |
| **Test Plan Preparation** |  |  |  |  |  |  |  |  |  |
| **Test Plan Review** |  |  |  |  |  |  |  |  |  |
| **Testing** | | | | | | | | | |
| **Testing and Test Report Update** |  |  |  |  |  |  |  |  |  |

### **REVIEW**

* Daily stand up for tracking the milestone
* Review of deliverables as scheduled
* Behavioral Traits shall be evaluated along with project deliverables

### **Final Review and Recommendation:**

* Rating and Score against each parameter

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| --- | --- | --- | --- | --- |
| **Sr.No** | **Parameter** | **Rating** | | **Score/5** |
| **1** | **Approach towards the problem** |  | |  |
| **2** | **Analytical Ability and Results discussion** |  | |  |
| **3** | **Independent Work +Team Work** |  | |  |
| **4** | **Presentation Skills** |  | |  |
| **5** | **Project Deliverables** |  | |  |
| **6** | **Quality of Project Thesis** |  | |  |
| **7** | **Communication Skills** |  | |  |
| **8** | **Attitude** |  | |  |
| **9** | **Confidence** |  | |  |
| **10** | **Innovation** |  | |  |
|  | **Total** |  | | **/50** |
|  |  |  |  | |

A= Exceeds Expectations B= Meets Expectations C=Does not meet expectations

**Recommendation:**

**Progression: Yes No**