EN2090 - Laboratory Practice - II

Group project - Group 15

**Group members:**

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**Preferences:**

1. Linear Power Supply
2. Analog Line Follower
3. Lux Meter

**Reason for the first preference:**

As this project is developing a linear power supply, we think that this project is something that all the EE engineers should know. We hope that we will probably need practical working experience with the linear power supply more than any other projects available for us. Therefore, this can be the best choice among all the options.

**Our pluses and the approach:**

Since we already have the basic understanding of the working principles of a linear power supply from our theoretical knowledge, we can easily expand our knowledge through research about safety regards and some other important critical underlying concepts.

We are planning to use the simulation software as much as possible to test and debug our design. We can get the maximum benefit from simulation software to get a good accuracy of the linear power supply. As the simulations were good enough, we can go for actual physical implementations with the necessary safety measures. We think this is a good opportunity for us to practice our knowledge on subject matters and skills. Also, we can enhance our existing knowledge through this.

As we have already made some PCBs on our own for Laboratory practices 1, developing a PCB by us for this project (which is a required outcome) might not be a big challenge. Even if it is a challenging thing to do, we are excited to learn and overcome it too.