**EEE423 Project Proposal**

**Project Title : 110/220VAC LED lamp control via BLE**

In this project we aim to control any low power 110/220V AC load like an LED lamp using the microcontroller ESP32 which has a Bluetooth Low Energy(BLE) capability, using BLE we will program a Bluetooth server and advertise it so client can connect to it and get notified and write data to the microcontroller. We have also program a user friendly client application for android that farther allowed for complex controls yet ease of use. The 110/220VAC switching will be using the opto-traic MOC3043 to close the electrical circuit by energizing the opto-triac transmitter(LED) which saturate the receiver(photo-traic).

**Project members :**

* Mohammed A.Mohaimid 372901185
* Esmail Hassan Al Asfoor 372901144
* Hussain Ali Almousa 372901189