



AMIT's Graduation Project

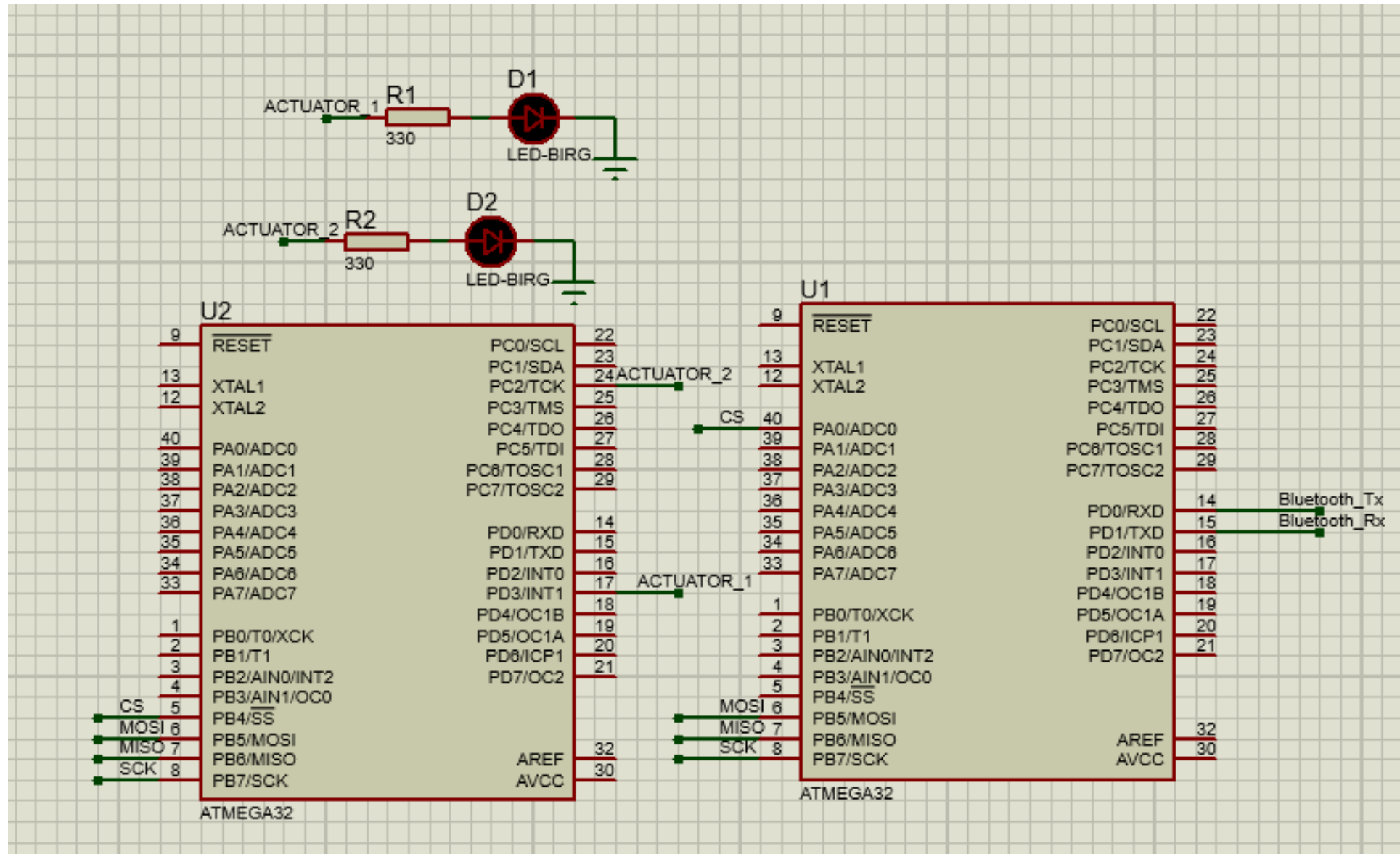
AMIT-Learning

Project Description

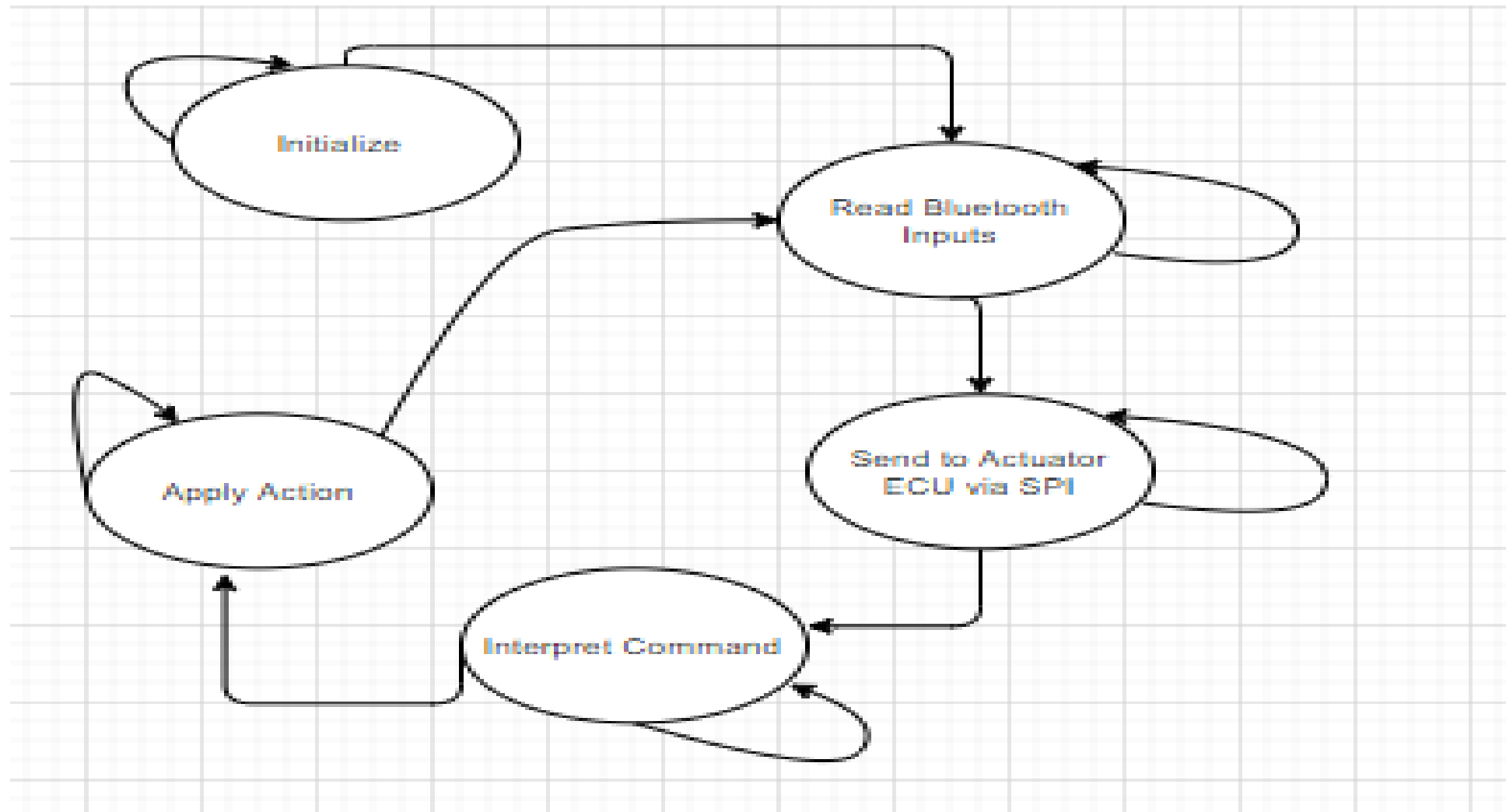
- This project is Smart Home based Bluetooth where we want to control home appliance wirelessly using Mobile App via Bluetooth.
- Two ECU's Communicate with each other the first is a control ECU which takes the input from Bluetooth and send it to the Sink (Actuator) ECU via SPI to interpret which action should be taken
- Let's have an example



Schematic



Finite State Machine of the System

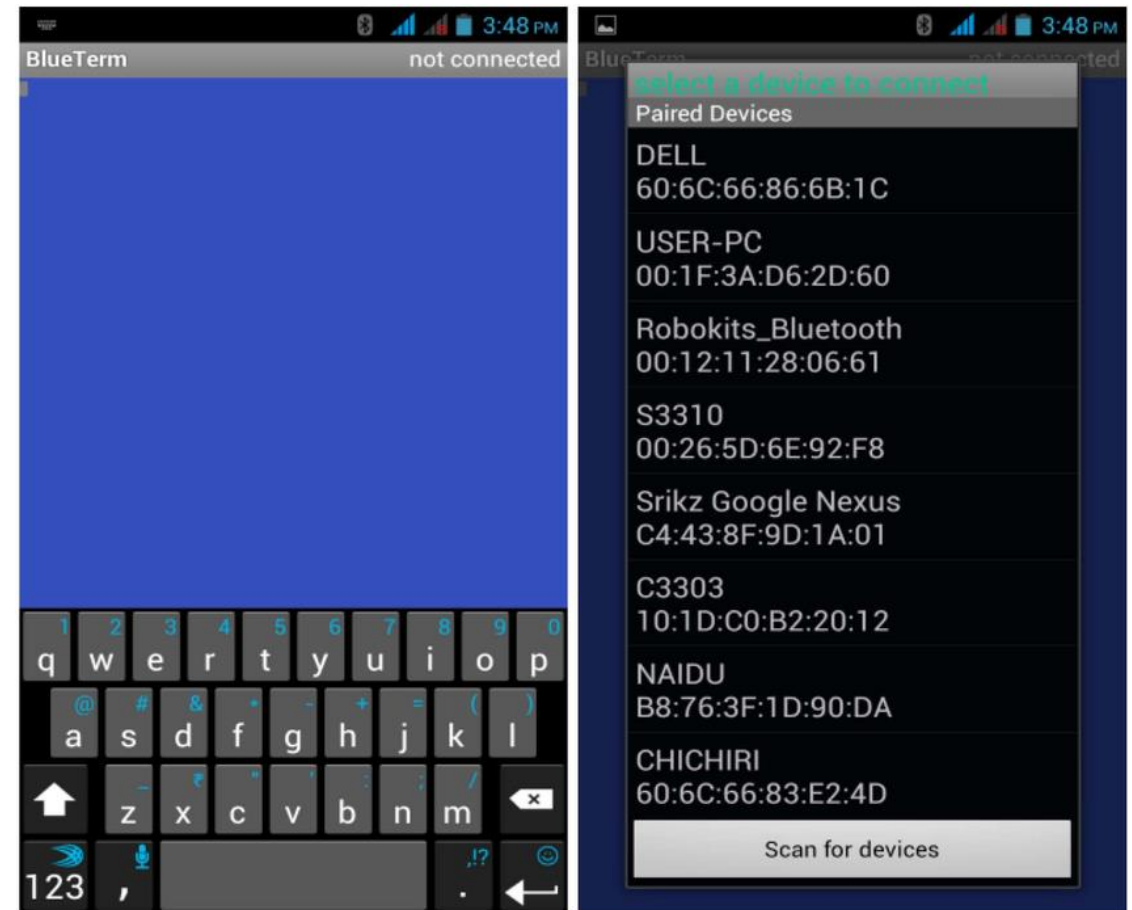


Implementation tips

- You can implement this project using a scheduler or not.
- Use best practice and Generic coding Standards
- Preferred to have layered Architecture
- Test each module separately
- Integrate module by module , don't integrate the whole project at once

AMIT Mobile App to use

- You can use Blueterm which can be easily downloaded from Google play
- You need to pair with the Bluetooth first
- Then try to connect



What Do you need to Deliver?

- Project Code based on Layered Architecture and Modular Programming
- Project Simulation on Proteus
- Document that describes the Architecture and Design

Example Projects

- https://github.com/AMITLearningGit/AMIT_Grad_Projects