**Summer Intern**

I completed my three months work in two phases:-

1st phase:- 4th March 2019 to 30th April 2019

I paused this internship because my end semester was about to start and I wanted to study academic subjects. i.e from 5th May 2019 to 30th May 2019.

2nd phase:-1st June 2019 to 5th August 2019

I was in First year and I did not have lot of technical knowledge that is why I did not contribute a lot but I learned many things during my internship. My mentors gave me basic as well as intermediate tasks and I managed to complete most of them.

Some of the tasks which were given to me and I completed are mentioned below:-

* Drone:-
  + Learnt about different types of motors and their working principle.
  + Learnt about Working principle of drone
  + Learnt about different components of drone.
  + Installed linux operating system on virtual machine.
  + Fixed general issues and errors which were stopping my installed software to run.
  + Installed Robot Operating System.
  + Learnt about different types of communication protocol.(i.e-I2c,SPI,UART).
  + Learnt advantages of Zigbee over Wi-Fi, bluetooth and other wireless devices.
  + Learnt about GPS and Kalman Filter.
  + Learnt basic of Python programming language.
* Obstacle detection bot
  + Interfacing of ultrasonic sensor with arduino.
  + Learned about different types to sensors.
* Remote controlled bot
  + Interfacing of Bluetooth module with Arduino.
* Switching on and off a LED using Bluetooth module.
* Learned how motor driver works.
* Basic Keyboard prototype
  + Learned how to use Breadboard
  + Made 4X4 keyboard using arduino(30% Working)
* Learned to use proteus software.
* Leaned about working of keyboard.
* Coding
* Did some coding using C programming Language:-
* Conversion of one number-system to other.
* Some hackerank problems

Thank you so much for giving me the opportunity to work with FortyTwo labs. I also want to thank my mentors Mr. Tilak Marpilla and Mr. Vamsi Krishna Challa for supporting and helping me with all the task assigned to me.

Thank you

Ankush Roy

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