

ALI ASGER MODI

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EXPERIENCE

CarlQ(www.mycariq.com), Pune — *Intern*

August 2015 - November 2015

- Handling the testing and installation of CarlQ devices.
- Working as Technical Support for CarlQ and handling their Justride project.
- Worked on their GPS devices.
- Designed a fuel level detector for CarlQ devices.

Revealing Hour Creation(www.revealinghour.in), Pune — *Intern*

December 2014 - February 2015

- Worked on a Home Automation kit (AuraHome).
- Worked on its Android Application and Webpage.
- Worked on XML file of the Login Page.
- Worked on determining the IP address of the RaspberryPi that was connected to the WiFi network and adding it to the login page.
- Worked on a controller based Piano-Stairs project, that was implemented at Phoenix Mall, Pune. In this project, worked on the interfacing of MPR121 capacitive touch sensor with Arduino and RaspberryPi.
- Wrote C code for the interfacing of MPR121 with Arduino and Python script that could read the output from Arduino and play the required tunes.
- **Link:** <http://blog.revealinghour.in/rhc/2015/01/31/piano-stairs/>
- **Technologies:** Python, Linux CLI, RaspberryPi, Arduino, Tah, AuraHome Kit, Zigbee, Andorid.

Revealing Hour Creation(www.revealinghour.in), Pune — *Intern*

June 2014 - August 2014

- Designed the testbed for their Arduino based controller TAH.
- Used RaspberryPi as the main processor to test the TAH boards(www.tah.io).
- Designed a circuit that could test the Analog and Digital pins of the TAH board.
- Used Python to write multiple scripts to control the GPIO pins of RaspberryPi and to display the conditions over an LCD.
- Used Linux CLI, increased overall knowledge about using Linux.
- **Link :** <https://github.com/tah-io/tah-testbed>
- **Technologies:** Python, Linux CLI, RaspberryPi, Arduino, Tah

PROGRAMMING SKILLS

- C++
- Python
- Java (Android App Development)
- HTML
- JavaScript
- MATLAB

OPERATING SYSTEMS

- Linux
- Raspbian
- Windows

HARDWARE SKILLS

- Arduino
- Raspberry Pi
- TAH

OTHER SKILLS

- Tools:
 - Git
 - Linux CLI
- IDE
 - Eclipse
 - Android Studio
- Networking:
 - CCNA
- CCNP Training

EDUCATION

Pune Institute of Computer and Technology, Pune — *Bachelors of Engineering(Electronics and Telecommunication)*

MONTH 2010 - MONTH 2015

The Indian Community School, Kuwait — *Higher School*

MONTH 2008 - MONTH 2010

PROJECTS

Quadcopter for Aerial Surveillance controlled using Android Phone

In this project we designed a quadcopter and placed an IP camera over it. Arduino is used as the primary controller to control the quadcopter. The camera is placed on the quadcopter and gives live feed from the copter. The movement of the quadcopter will be controlled using an android application which will be connected to the Arduino via Bluetooth. The live feed from the camera placed on the quadcopter will be streamed on the smartphone using Wi-Fi.

This project was also featured by a Blog :

<http://unplugtech.com/2015/02/demos-and-showcase-meetup-recap-gadgets-and-iot-is-evolving/>

Link: <https://github.com/aliasgermodi/quad>

IDE: Android Studio, Arduino.

Technologies: Linux CLI, Arduino, Android, Bluetooth

Automatic Headlamp switching using Ultrasonic Sensor

This device uses a sonar sensor interfaced with CPLD which senses the distance between two vehicles and switches the headlamp's beam between high and low continuously to signal the vehicle ahead for overtaking or to alarm an approaching vehicle.

Language used: VHDL

String Instrument Tuner

This tool will help people in tuning instruments like guitar, sitar, violin etc. In this system the input given by the string instrument will be the different chords and notes played on the string instrument. This input will be compared with the database using MATLAB that will have the accurate chords and notes. This will tell the person using the instrument whether the instrument is properly tuned.

Language used: MATLAB

SEMINARS

Talk on IoT, RaspberryPi and Arduino at SKNCOE

- What IoT is, explained the scope of IoT and how to connect the physical world to the internet.
- Talk on Arduino, Explained the working and functioning of Arduino and took a workshop and demo on Arduino.
- Talk on Raspberrypi, Explained the working and functioning of Raspberrypi and took a workshop and demo on Raspberrypi.
- **Links:**
 - <https://modaliasger.wordpress.com/2016/01/29/techtonic2k15-at-skncoe-pune/>
 - www.slideshare.net/AliAsgerModi/raspberry-pi-57644688
 - <http://www.slideshare.net/AliAsgerModi/arduino-57644687?related=1>

Seminar on Smart Antennas

- Done research on Smart Antennas.
- Understood the working of Smart Antennas.
- Basic advantages and disadvantages were explained.

REFERENCES

Prashant Tiwari : pt@revealinghour.in

Nishant Modak : nm@revealinghour.in

Anuj Deshpande : anujdeshpande92@gmail.com

Sagar Apte : sagar@mycariq.com

OTHER INTERESTS

- Mobile technology.
- Bike and car enthusiast.
- Photography.