

# MARIO DOMINIC J

Post Grad Student, Tech enthusiast

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## EXPERIENCE

Fresher, sporting a lot of the industry needed skillset

## PROJECTS

Advanced Active Detection And Prevention Of Water Leakage In Concealed Pipes

KSCST 41st Series finalist/HKBC College of Engineering

The Proposed Solution Makes use of flow sensors and solenoid valves attached to every end of the pipe to detect the continuity of fluid and hence, leakage in the pipes. The system logs all the data to a remote server and also reports its findings to the administrator via the control panel UI that is provided over a webURL.

Texture Enabled Haptic Feedback Of Touchscreen

DST and Texas Instruments Inc./India Innovation Challenge Design Contest 2016-Quaterfinalist

The Texture enabled haptic feedback of the touch screen presents a variation to the conventional model of the touch screen. This particular technology, commonly referred to as Haptic Feedback, is implemented on a capacitive touch screen wherein the texture of some particular object could be felt by just a mere touch.

IOT Blynk-Cloud Based Smart Home Automation For Home Self Funded Project

The project makes use of Esp 8266 chip to program a cloud based, smart home system through which the entire home can be controlled

IOT (MQTT) Based Automated Garden System

Self Funded Project

This is a very well engineered system, built on the Espressif ESP8266 chipset, sporting a custom built soil sensor and a host of other sensors like the dht11. This system measures the moisture in the soil at regular intervals of time and waters the plants as needed.It keeps track of the environment parameters like relative humidity and ambient temperature to adjust its watering schedule.

This system is completely built on the popular Mosquitto Broker which distributes the generated information over the cloud to various clients.This system is also integrated with Node-RED to bring in a host of features like email notifications, Amazon Alexa integrations, etc.

## MY LIFE PHILOSOPHY

“Always have a craving for learning new things and to make the impossible,possible!”

## MOST PROUD OF

Certified Full-Stack Web Developer  
Mongo,express,NodeJs and ReactJS

Internet of Things Developer  
RPi,Esp8266,Esp32,MQTT,Node-Red

## STRENGTHS & SKILLS

- Hard-working
- Passionate
- Motivator & Leader
- Optimistic
- Eye for Detail

- C
- C++
- Java
- Embedded Systems
- Internet of Things
- HTML,CSS,JS
- JQuery,ReactJS
- NodeJs,Express
- MongoDb
- Linux

## LANGUAGES

- English
- Hindi
- Kannada
- Tamil
- French

## PROJECTS-CONTINUED

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### IOT (MQTT) Based Automated Water level Control System Self Funded Project

This system is built on the Espressif ESP32 chipset, sporting an ultra-sonic sensor. This system measures the water-level in the overhead tanks and controls the main water pump to keep the tank full at all times!

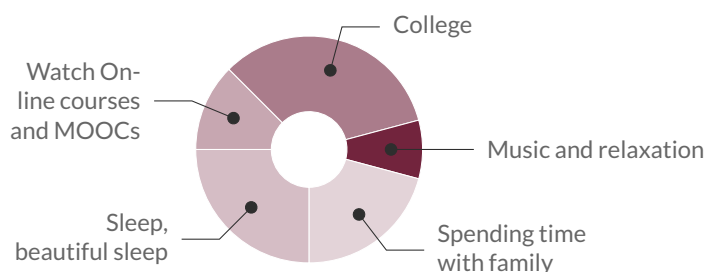
### SMART TOUCHSCREEN STEERING CONTROL SYSTEM

Advanced Computing and Communications Conference/ARM Student Design Challenge@PES University

The project presents a touch UI based interface for the Steering system of cars, similar to the fly-by-wire systems used in modern aircrafts.

## A DAY IN MY LIFE

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## PUBLICATIONS

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“Role-based Transaction coordinator for distributed Web Service Transactions”, National conference on Recent trends and innovations in Information Science and Technology, CMR Institute of Management Studies(2016).

## EDUCATION

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### M.Tech in Computer Networks University Visvesvaraya College of Engineering

Sept 2018 – Ongoing

### B.E. in Information Science and Engineering

HKBK College of Engineering

Sept 2014 – June 2018

### Xth ICSE

St. Germain High School

June 2002 – March 2012

## REFEREES

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### Prof. Syed Mustafa

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