

# BELAL QUAMAR

EMBEDDED SOFTWARE ENGINEER

## PERSONAL INFO.

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**GIT**

[BelalQuamar \(Belal Quamar\) · GitHub](#)

## CERTIFICATION

**EMC Associate—Information Storage and Management**

## EDUCATION

**Integral University,  
Lucknow, U.P.**

*Bachelor of Technology  
(Computers), 2016*

**Central Academy, Lucknow, U.P.**

*Intermediate, CBSE  
2012*

**St. Fidelis School  
Lucknow, U.P.**

*High School, ICSE  
2009*

**IELTS— 7.5**

*L/R/W/S – 8.5/7.5/6.5/8*

**GRE—301**

*V/Q/A – 144/157/4.0*

**GATE 2016—qualified**

## Work Experience

**March 2021 till date: Embedded Engineer at Virtual Cybertrons pvt ltd Lucknow**

- Web based Greenhouse controller using raspberry pi
- IoT based load cell to view data over the internet
- Bike monitoring and control system

**July 2020 to March 2021: Freelancer on the following projects**

### Hardware Projects

- Robotic hand and conveyor belt mechanism prototype for airport baggage management
- Mesh Networking Implementation in ESP devices
- Development of a mesh-based Rx Tx for a UAV.
- Development of a car safety module with on board sensors and cellular integration
- Smart home deployment along with development of in-house smart lights based on ESP (work under progress)
- An automatic hand sanitizer dispenser with WiFi capabilities to alert staff when of its status

### Content Creation

- Developed a 12 session course over IOT for professionals in partnership with Aptech
- A free of cost course over Arduino for school children to be delivered to Gov of A.P.

**Nov 2016 - July 2020: D.K InfoSolutions Lucknow as a Software Developer working on the following technologies-**

- Automation and monitoring system
- Infrared Remote based on ESP with AI integration using Alexa
- Attendance management using RFID
- Clocks with an all-time sync via GPS
- Water supply management and monitoring at an IIT using ultrasonic sensors
- Car Automation using CAN Bus
- PCB development using EAGLE and Fritzing as well as etching using chemicals
- 3d printing and modelling using AutoCAD Ender 3
- Worked as a Team Lead and single point of contact for the following project
- Test portal development based on PHP, MySQL and Ubuntu Server on digitalocean VM's along with MOODLE framework.
- HRMS portal based on PHP MySQL and Android.
- Application Containerization using docker and Kubernetes along with deployment of a large Kubernetes cluster
- Application migration from asp .net to php framework including web apps email etc.
- Php native applications for in house resource management within an organization
- E-commerce website using CodeIgniter.
- System admin for looking over remote servers

# BELAL QUAMAR Social Work(CSR)

## SKILLS

### Embedded Tools

VS Code

PlatformIO

Arduino IDE

RTOS

Linux

ESP8266/32

TI MSP

ATmega

Arduino

RaspBerry Pi

CURA

AutoDesk Fusion 360(PCB)

EasyEDA

### Software Skills

MySQL

GIT

Docker

kubernetes

Ubuntu Server

AWS lightsail

AWS lambda

AWS EC2

nginx

REST

PHP

MOODLE

- Worked as volunteer and analyst towards development of a common laboratory set up for schools and ITI's at ITDA K.R Puram Andhra Pradesh along with Prof M.R.K Maringanti and Prof Bapuji Maringanti. In Association with Gov of Andhra Pradesh.
- Analyzing of shortcomings of the current set up and presenting ideas to enhance the same and bridge gaps wherever possible.
- Design of a lab for all schools with 900 student/day capacity
- Present innovative ideas among students based on embedded electronics to enhance students interests in science at school level.
- Set up a Learning management system at a tribal girl's school.

### Jun 2015-Nov 2016: Freelancer on the following projects

- Electronics Projects based on the following
- Home Automation using ESP devices and mobile app
- In house integration based on Indian set up of devices
- Web Applications based on the following
- WordPress applications for user profiles
- E-commerce based on WooCommerce, Prestashop and Magento

### Trainings

- Gave a 5 day workshop on PCB design to 200 faculty members of orchid engg college Maharashtra using autodesk fusion 360 in partnership with AUTODESK
- Mentoring 3 students from IIIT Lucknow on developing an IoT cloud including server backend and hardware design on ESP8266
- Attended an Industrial Training on R and data analytics
- Third Year Summer training on "Web and embedded applications using ASP.NET and C#".

### College Projects

- Final Year Project on "Tiger Identification through Image Processing" using MATLAB.
- Worked as Student Associate at Software Development Cell Integral University for the session 2014-16 and developed the college Website using ASP.NET, C# and SQL SERVER.

### Workshops Conferences & Seminars

- Attended and Coordinated the International Conference on Advancement in Computer Engineering and Information Technology
- Attended various workshops on "Programming on P.I.C", "Android App Development", "Arm Controlled Robotics", "Oracle Workforce Development" program, and "Hybrid Android Development with HTML5 Responsive Templates".
- Attended seminars on "Cyber Threats to Digital World", "Green Tech", & "Social Entrepreneurship".

### Academic & Extracurricular Activities

Presented a Seminar on "git" at Integral University Lucknow.

Presented a Technical Paper on "Internet of Things", at FIESTA-2014 Integral University.

### Fields of Interest

Electronics, Computer Programming, Psychology and Collecting.