BELAL QUAMAR

EMBEDDED SOFTWARE ENGI-

PERSONAL INFO

Phone: +1-226-961-0550 Email:

belalquamar@gmail.com quamar@uwindsor.ca

Address: 454, California Ave,

Windsor , Ontario Canada N9B-2Y9

Linkedin: linkedin.com/in/

<u>belalquamar</u>

GIT: github.com/BelalQuamar

CERTIFICATION

EMC Associate—Information Storage and Management-2016

Pursuing AWS certified Solutions Architect

EDUCATION

MASc ECE

Fall 2022- Present

Research focused on

FPGA's

Integral University, Lucknow, U.P.

Bachelor of Technology (Computers), 2016

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

Current Academics

Pursuing MASc(Research based) at the University of Windsor under Dr. Mohammed Khalid with research focused on Hardware Acceleration using FPGA's on webservers.

Work Experience September 2022– Till date

Worked as Graduate Assistant for multiple courses assisting the professors and taking labs and grading exams.

Nov 2016 - August 2022: D.K InfoSolutions Lucknow as a Senior Team Lead working on the following -

Worked as a Team Lead and single point of contact for the following project

- Learning Management System (LMS) & HRMS development based on PHP, MySQL and Ubuntu Server on digitalocean VM's along with MOODLE framework.
- Application Containerization using docker and Kubernetes along with deployment of a large Kubernetes cluster
- Application migration from asp .net to php framework.
- Php native applications for in house resource management
- E-commerce website using CodeIgniter.
- System admin for remote servers

Hardware Projects

- Web based Greenhouse controller using raspberry pi
- IoT based load cell to view data over the internet
- Bike monitoring and control system
- Factory 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 using ultrasonics
- Car Automation using CAN Bus
- PCB development using EAGLE and Fritzing as well as etching using chemicals
- 3d printing and modelling using AutoCAD and Ender 3
- 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.

BELAL QUAMAR

SKILLS

Embedded Tools

VS Code

Platformlo

Arduino IDE

RTOS

Linux

ESP8266/32

TI MSP

ATmega

Arduino

RaspBerry Pi

CURA

AutoDesk Fusion 360(PCB) •

EasyEDA

Software Skills

Intel Quartus Prime

ModelSIM

Vivado

MySQL

GIT

Docker

Kubernetes

K

Tableau

Ubuntu Server

AWS lightsail

AWS lambda

AWS EC2

nginx

REST

PHP

MOODLE

Social Work

- 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.
- Analyzed the shortcomings of the current set up and presented 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
- Mentored 3 students from IIIT Lucknow on developing an IoT cloud including server backend and hardware design on ESP8266
- Attended a 5 day Industrial Training on R and data analytics
- 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 Coin Collection.