Alfred Dominic

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Objective

To obtain a position as an active employee in a growing, reputable company that encourages continuous learning, creativity and provides atmosphere for personal and professional growth.

Education

2010-2014 **B.Tech in Electronics and Communication Engineering**, *Govt Engg College, Sreekrishnapuram*, Kerala, India, **CGPA 5.37/10**.
University of Calicut, India

2010 **AISSCE**, *Jyothi Nivas Senior Secondary School, Aluva*, Kerala, India, **Secured 81%**.
CBSE, New Delhi

2008 **AISSE**, *Jyothi Nivas Public School, Aluva*, Kerala, India, **Secured 83%**.
CBSE, New Delhi

Technical skills

Programming Languages C, C++, Python, C#, Embedded C, LaTeX, Shell Scripting

Frameworks Flask

Operating Systems Linux, Windows

Tools Git, Emacs, Visual Studio, Matlab, Multisim, Circuit Wizard

Projects

Title ***Publish - Multichannel announcement application***

Description This project was developed as a part of the Lycaeum Mentoring course. Publish is a multi-channel announcement python application. Using this application we can sent out messages to multiple channels at once. Currently Twitter, Facebook, Email and Blogging channels have been implemented.

Languages : Python 2.7
Tools : Git, Emacs
Duration : 45 Days
Public APIs : facebook-sdk, tweepy, mechanize, Pillow, etc.

Title ***Ultrasonic Hover Input Device***

Description This is an extension of the Project, Ultrasonic Based Hover Input Device. Objective of this project was to improve hardware performance and tracking precision so that a reliable working model can be made. Finally a working device which can recognize hand motions(left, right, up, down) was developed and demonstrated using windows GUI application. I was actively involved in requirements gathering, PCB design and windows application development of the project.

Languages : C#, Embedded C

Hardware : Atmega 328P MCU

IDE : Visual Studio 2013, Atmel Studio, Circuit Wizard

Duration : 2 months [Main Project : 7^{th} & 8^{th} Semester]

Title ***PC based Wireless Automatic Energy Meter Billing***

Description Using the PC based Automatic Wireless Energy Meter Billing system getting monthly readings and bill creation is automated for multiple consumers. In case of defaulters the connection is disconnected until payment is made. A GSM module is used for sending and receiving meter readings and bill created. Credit card based payment system has been implemented using RFID tags/reader. I was actively involved in the electricity board side PC application development which controls the overall working of the complete system.

Languages : C#

Hardware : SIM 300 GSM Module, RFID Reader & Tags

Database : SQL Server

IDE : Visual Studio 2013

Duration : 30 Days

Title ***Advanced Braille Note Taking System***

Description The Advanced Braille Note Taking System is a small portable device which contains 8 keys, 6 keys for entering the Braille characters and 2 navigation keys. The device is connected to a computer for permanent storing of data. Speech Synthesizer is used for text to speech conversion to assist the blind. Email service is also implemented. I was actively involved in the PC application development which does speech synthesis for assisting the blind and takes notes which is stored for later access.

Languages : C#

IDE : Visual Studio 2013

Duration : 30 Days

Title ***Ultrasonic Based Hover Input Device***

Description In this project we have designed a device which can track hand movements in front of a computer screen using ultrasonic waves. The basic principle of trilateration was used for calculating the position of the hand. For fast calculation and producing the ultrasonic signals Atmega 328P micro-controller was used. Finally the information corresponding to the location of the hand is send to the PC. I was actively involved in requirements gathering, Circuit Design and PCB design.

Languages : Embedded C

Hardware : Atmega 328P MCU

IDE : Atmel Studio, Circuit Wizard

Duration : 30 Days [Mini Project : 6^{th} Semester]

Training

Title *Embedded Systems Training*

Description Attended the training on Basics of Embedded System at Focuz Infotech, Edappally, Kochi

Title *Lycaeum Mentoring Course*

Description Attended a course which covered Unix Programming, shell scripting and basic tools like git for version control and Python programming at The Lycaeum, Calicut

Achievements

- Participated in Yuva Mastermind 2014 Exhibition for the Project - Ultrasonic Hover Input Device
- Completed University Of Toronto's Non-Credit Online Course - Learn to Program: The Fundamentals
- Organized and volunteered events for Invento'12 (Tech Fest of GEC Palakkad)
- Have hosted and set up LAN gaming events

Area of Interest

- Software Design & Development
- Embedded System

Strengths

Honest, Ethical, Ability to learn new technologies quickly,
Good managerial and co-ordination skills, Collaboration with other team members,
Excellent verbal and written communication skills.

Personal Information

DOB	12/07/1992
Sex	Male
Marital Status	Single
Languages	English, Hindi, Malayalam
Nationality	Indian
Hobbies	Reading, Web Browsing, Watching Movies, Traveling, Music

Declaration

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Place: Ernakulam
Date : November 20, 2014