Dheeraj D **Kamath**

ELECTRONICS ENGINEER · ANDROID DEVELOPER

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Profile Summary: *I'm a hard working dedicated individual with leadership skills, technical knowledge and excellent communication skills looking to work in your esteemed organization with an aspiration to excel and grow. I will apply my skills and contribute with the best of my abilities to fulfil the goals assigned to me*

Education

BMS College of Engineering   *Basavangudi, Bangalore*

B.E. IN ELECTRONICS AND COMMUNICATION ENGINEERING   *Aug. 2014 - PRESENT*

- CGPA being 8.90 as of now

Expert Pre University Science College   *Kodialbail, Mangalore*

PCMS   *June. 2012 - May 2014*

- Scored 96.33% in 12th

Sharada Vidyalaya   *Kodialbail, Mangalore*

10TH STD   *June. 2011 - March 2012*

- Scored 10 CGPA

Work Experience/ Internships

Shmoti Pvt Limited   *Dharwad*

ANDROID APP DEVELOPER   *June 2016 - July 2016*

- Designed an online movie ticket booking app
- All data received from JSON Database hosted on the server was displayed in the app in a very craftful manner
- **Sofware used:** Android Studio | **Languages used:** Java | **Concepts used:** JSON, JSOUP

IIT Bombay   *Mumbai*

ARUCO MARKER BASED ROBOT LOCALISATION   *June 2015 - July 2015*

- Developed code for detection of Aruco Markers using Python and Image Processing Library Open CV
- Developed code for Firebird V Robot for navigation
- Applied concepts of linux programming and worked with Raspberry PI which had the camera mounted on it for detection and socket programming for data transfer to the PC

Projects

Home Automation with Manual Control override using LPC1343 ARM Cotex M3 and ESP8266

KEIL v5, ANDROID STUDIO, ARDUINO IDE   *March 2017*

- Developed an app to ping the server IP address created by the ESp8266 module
- Light detection and temperature detection sensor which are part of the automated system
- More details about the project can be found here: www.github.com/Dheeraj22/HomeAutomation

Timetable App

JAVA, XML, JSON   *August 2016*

- Developed an app to display time table, syllabus, faculty details and a platform to download study materials
- Study Materials hosted on server and can be updated, thus dyanamic
- JSON parsing and retrieval using JAVA programming to fetch data from server
- More details about the project can be found here: www.github.com/Dheeraj22/Timetable

Detection and Decoding of Aruco Markers from live video feed using Rasberry Pi and Webcam

PYTHON, OPENCV *December 2016*

- Developed an algorithm in Python to effeciently detect aruco markers from the live video stream
- Hamming code was used to decode the ID of the marker
- More details about the project can be found here: www.github.com/Dheeraj22/ArucoMarkers

Two Wheel Balance Bot using MPU6050 and 8051 Microcontroller

KEIL V5 *March 2016*

- Designed a two wheel balance bot using the inverted pendulum concept
- Used the concept PID control system
- Project incomplete due to limited features on 8051, ongoing with arduino
- More details about the project can be found here: www.github.com/Dheeraj22/BalanceBot

Home Automation without using Microcontroller

OPAMP LM741, RELAYS *December 2015*

- Designed a relay logic circuit to mimick the microcontroller
- Opamps to amplify the sensor voltages
- Sensors used: Temperature sensor, LDR
- More details about the project can be found here: www.github.com/Dheeraj22/AMEHomeAutomation

Technical Skills

Computer Science: C, C++, Java, Python, Android Studio, OpenCV | **Basics:** MATLAB, MySQL, PHP, HTML, CSS, Latex | **Others:** JSON, JSOUP

Electronics: Keil v5, Cadence Virtuoso, ATmel Studio, Fritzing, Verilog HDL (Xilinx Vivado), LTSpice, Proteus, Control Systems, Computer Communication Networks, Digital Signal Processing, Analog Microelectronics, Microcontrollers

Microcontrollers/Boards used: 8051, Atmega series, Arduino Uno, Raspberry Pi, LPC1343 (ARM Cortex M3), NodeMCU

Others: Adobe Photoshop, Adobe Premiere Pro, Adobe After Effects

Co-Curricular Activities

2014	**Winner - 1st Place**, e-Yantra Robotics Competition, Theme - Caretaker Robot	*IIT Bombay*
2015	**Winner - 3rd Place**, e-Yantra Robotics Competition, Theme - Gas Leakage Robot	*IIT Bombay*
2016	**Selected for Phase 2**, Sewage Treatment and Mitigation, Ideathon (www.impact-karnataka.org/)	*Govt. of Karnataka*
	Workshops Conducted:, Android App Development, Building RC car	
	Played key roles in:, Design of Department Magazine, organising seminars and workshops, poster design, videography and other departmental activities	

Extracurricular Activities

Placement Coordinator *BMSCE*

DEPARTMENT OF ECE *March 2017 - PRESENT*

- Proposed various strategies to bring various core companies to the college
- Organised and facililiated different companies to conduct their internship and hiring process

Organising Committee Member *BMSCE*

UTSAV 2017 (CULTURAL FEST) *March 30th - April 1st, 2017*

- Gained insight into how various industries benefit by sponsoring college fests
- Leadership and interdisciplinary relationship with students

Department Coordinator *BMSCE*

PHASESHIFT 2016 (TECHNICAL FEST) *10th Sep. 2016 - 30thSept 2016*

- Organised, planned and looked upon effecient working of several events
- Approached several companies for sponsorship and it helped me imbibe professionalism