

# Dheeraj D Kamath

ELECTRONICS ENGINEER · ANDROID DEVELOPER

#4, Shri Kamakshi Comforts, Behind Shaneshwara Temple, Tyagrajnagar, Bangalore 560028

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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

B.E. IN ELECTRONICS AND COMMUNICATION ENGINEERING

- CGPA being 8.90 as of now

Basavangudi, Bangalore

Aug. 2014 - PRESENT

### Expert Pre University Science College

PCMS

- Scored 96.33% in 12th

Kodialbail, Mangalore

June. 2012 - May 2014

### Sharada Vidyalaya

10TH STD

- Scored 10 CGPA

Kodialbail, Mangalore

June. 2011 - March 2012

## Work Experience/ Internships

### Shmoti Pvt Limited

ANDROID APP DEVELOPER

- 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
- **Software used:** Android Studio | **Languages used:** Java | **Concepts used:** JSON, JSOUP

Dharwad

June 2016 - July 2016

### IIT Bombay

ARUCO MARKER BASED ROBOT LOCALISATION

- 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

Mumbai

June 2015 - July 2015

## Projects

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

KEIL V5, ANDROID STUDIO, ARDUINO IDE

- 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](https://www.github.com/Dheeraj22/HomeAutomation)

March 2017

### Timetable App

JAVA, XML, JSON, ANDROID STUDIO

- 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 dynamic
- 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](https://www.github.com/Dheeraj22/Timetable)

August 2016

## 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](https://www.github.com/Dheeraj22/ArucoMarkers)

## Two Wheel Balance Bot using MPU6050 and 8051 Microcontroller

KEIL V5, CONTROL SYSTEMS

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](https://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](https://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, Computer Architecture, VLSI

**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	<b>Winner - 1st Place,</b> e-Yantra Robotics Competition, Theme - Caretaker Robot	IIT Bombay
2015	<b>Winner - 3rd Place,</b> e-Yantra Robotics Competition, Theme - Gas Leakage Detection Robot	IIT Bombay
2015	<b>3rd Place,</b> Fury Road (RC Car Racing)	Phaseshift   BMSCE
2016	<b>Selected for Phase 2,</b> Sewage Treatment and Mitigation, Ideathon ( <a href="http://www.impact-karnataka.org/">www.impact-karnataka.org/</a> )	Govt. of Karnataka

## Extracurricular Activities

### Placement Coordinator

BMSCE

DEPARTMENT OF ECE

March 2017 - PRESENT

- Proposed various strategies to bring various core companies to the college
- Organised and facilitated 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

### Volunteer

BMSCE

PHASESHIFT 2015, UTSAV 2015

2015

- Helped in miscellaneous work for smooth functioning of events

## Extras

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**Design**, Department Magazine and Posters for Fests and Workshops

**Workshops conducted**, Android App Development and Building RC Car

**Videography**, Created promo video for projecting events hosted by department during Phaseshift 2016 and also a promo video for Utsav 2017

## Personal Skills

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**Leader/Team Player**, Have been the class representative, coordinator for various events and seminars, department coordinator, placement coordinator and shown organizational and social ethics

**Socially active**, I have my own facebook page, one blog and two youtube channels which have been growing fast and attracting audiences where I post creative, humorous and technical content

Facebook: [www.facebook.com/realdheerajkamath](https://www.facebook.com/realdheerajkamath)

Wordpress: [www.dheerajkamath.wordpress.com](http://www.dheerajkamath.wordpress.com)

Youtube Channels: [Dheeraj D Kamath](#) and [Professor DK](#)

**Adaptive and Flexible**, Always ready for change and find myself capable of adapting to the change very quickly

**Strong Communication skills**, Able to make friends quickly and also present my thoughts and opinions in the best way possible

**Hardworking and Determined**, Want to apply my skills and knowledge and achieve the set goals with perfection and excellence

## References

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**Harish V Mekali**, Assistant Professor, Department of Electronics and Communication, BMSCE

Phone no: +91 95387 65141

**Lalitha S**, Assistant Professor, Department of Electronics and Communication, BMSCE

Phone no: +91 98862 52648

## Declaration

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I hereby declare that all the information furnished above are true and authentic to the best of my knowledge

May 7th, 2017