BHARGAV CHAUHAN

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EDUCATION

Dwarkadas J. Sanghvi College of Engineering, University of Mumbai, India   June 2015 – May 2019
Bachelor of Engineering in Electronics and Telecommunications Engineering
Secured *Distinction* with GPA: 8.73
Relevant Coursework: Analog and Digital Electronics, Microprocessors and peripherals, Microcontrollers and applications, Circuits and transmission lines, Integrated Circuits, VLSI Design.

PROFESSIONAL EXPERIENCE

INFOSYS LTD., Mysore   Aug 2019 – April 2020
System Engineer

- Learned new programming languages and software such as Python, Java, Database Management, and Selenium to build an understanding of the software industry.
- Developed a highly efficient program to test the web pages and web services with the help of software like Selenium and SoapUI in the capstone project.
- Maintained high levels of efficiency during training by taking detailed notes and asking questions.

ACADEMIC PROJECTS

HAND GESTURE VOCALIZER FOR THE SPEECH-IMPAIRED   May 2018 - June 2019

- Developed a speech synthesizer using the microcontroller ATmega32A, which converts the gestures to audio and visual output.
- The prototype model was made using flex sensors, and the project was extended to control the applications via gestures by changing the mode.
- The system can be easily calibrated by the needs of the user via the calibration button.
- Accomplished the designing of the circuit on the software and modeling the hardware components on the PCB board, programming the system using Atmel studio, and converting the program to assembly language before implementing it on the chip.

HOME AUTOMATION USING SENSORS   Jan 2018 - May 2018

- Prototyped a development board which can be utilized in every house with effortless installation and was cost-effective.
- Worked on software like CAD Eagle and Proteus to develop the PCB board.
- Developed an android app that was used to control home appliances via Bluetooth.

WIRE CUTTING MACHINE   July 2017 – Dec 2017

- The project automatically cuts copper wires based on the given input length and quantity.
- The system was developed with Atmega328p microcontroller and hardware components.
- Implemented the designing of the circuit, prototyping PCB, and hardware assembling with electric components.
- Studied and utilized the concepts of Stepper motor and Servo motor and analyzed various designs to implement the mechanical model.

MINI CNC PLOTTER   Jan 2016 – May 2017

- Designed a CNC plotter machine that writes text or draws images by using a pen on the provided solid surface.
- This system can be used for various purposes like PCB routing, logo design, cover page drawing of the project, etc.
- The project was mostly made from scrap materials like used DVD players and plywood.
- Software like Inkscape and Proteus was used to generate G-code files and PCB design, respectively.

SOFTWARE SKILLS

- Programming Languages: C, Python, JAVA, Assembly Programming, DBMS.
- Design and Simulation Software: MATLAB, Atmel Studio, CAD Eagle, Keil uVision IDE, Proteus, Arduino IDE, Selenium, Eclipse.
- Microprocessors and Microcontrollers: Intel 8085, Intel 8086, 8051, ATmega328P, ATmega32A, ATtiny2313.
- Adobe Photoshop, CorelDraw, Microsoft Office.
- Embedded Platforms: Arduino series, PCB routing, Debugging, Bluetooth module, ESP8266 Wi-Fi module.

CERTIFICATIONS AND PUBLICATION

- Ail Suyash, **Chauhan Bhargav,** Dabhi Harsh, Darji Viraj, Bandi Yukti (2019)" Hand Gesture Vocalizer for the Speech-Impaired," *International Conference on Wireless Communication,* October 11-12, Accepted for *Springer Digital Library* and published in the "Proceedings of International Conference on Wireless Communication" with ISBN: 978-981-15-1002-1
- Certification of Participation in ICWiCOM 2019 conference.
- **Chauhan Bhargav**, Jay Doshi, Prof. V. Venkataramanan (2018) "Development Board for Home Automation Sensors." *DJ Spark, 2018.* ISBN: 978-93-86724-75-5.
- Ranked 4th in the competition DJ STRIKE 2018 held by the department consisting of 30 teams.

INTERESTS

- Embedded systems
- AC and DC Circuit design
- PCB design and prototyping
- Hardware design
- IoT
- Exploring new applications related to the core field, and more