

Chaitanya Tejaswi



Summary

An Electronics & Communication (EC) graduate with a demonstrated exposure in Embedded Systems, Image Processing, and Python-based development; I am currently looking for an opportunity in similar domains. I have worked extensively with - AVR/ARM microcontrollers, implementing source codes in ASM/C; OCR & QR Codes in addition to conventional image processing; Python3 for creating GUIs & shell utilities, web applications (using Flask/Selenium), and machine learning scripts (using SciPy stack). I'm open to all software development roles.

Education

June 2014 - Jun 2018	Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar (GTU) <ul style="list-style-type: none">Completed Bachelor of Engineering (B.E.) in Electronics & Communication with a CGPA of 8.35.
June 2014	OSEM High School, Morbi <ul style="list-style-type: none">Completed HSC from CBSE Board with an aggregate of 80.2%.
June 2012	Delhi Public School, Gandhinagar <ul style="list-style-type: none">Completed SSC from CBSE Board with a CGPA of 9.8.

Publications & Invited Talks

15 June, 2020	Unboxing GitHub [SLIDES] [VIDEO] A talk for academics, with focus on basic GitHub features, and how to use them to create effective lecture notes.
21st April, 2020	Creating eBooks from Webpages using Python [SLIDES] [VIDEO] A talk to get you started with web scraping in Python using minimal external dependencies. We will write a script that scrapes online court judgments and creates Android/Kindle compatible ebooks from them.
2018	A Novel Approach of Tesseract-OCR Usage for Newspaper Article Images A novel approach for optical character recognition of newspaper article images (captured as smartphone camera images) is presented, with evaluation based on two sets of images; both captured using the same camera, under varying lighting conditions. [Chaitanya Tejaswi, Bhargav Goradiya, Ripal Patel; <i>A Novel Approach of Tesseract-OCR Usage for Newspaper Article Images</i> , Journal of Computer Technology & Applications. 2018; 9(3): 24–29p.]

Projects (Academic)

April, 2018	Pico-Projector based Automation Guide: Bhargav Goradiya, BVM VVNagar <ul style="list-style-type: none">Implemented Classroom Automation (for teachers) using DLPDLCR2000EVM pico-projector module & Raspberry Pi 3B as server.
October, 2017	OCR-based Personal Assistant Guide: Bhargav Goradiya, BVM VVNagar <ul style="list-style-type: none">Implemented a text extractor & text reader module for newspaper article images using Tesseract OCR & OpenCV, implemented in Python.
April, 2017	QR Code-based information system using QPython3 IDE on Android devices Guide: Kaushal Patel, BVM VVNagar <ul style="list-style-type: none">Wrote sample codes for automation using QR codes.
October, 2016	GSM Communication with AVRµc Guide: Anish Vahora, BVM VVNagar <ul style="list-style-type: none">Implemented serial communication between AVRµc (ATmega32) & GSM Module (SIM300).
April, 2016	Filter Implementation using MATLAB Guide: Robinson Paul, BVM VVNagar <ul style="list-style-type: none">Implemented lowpass and bandpass filters in MATLAB as an application of Sampling Theorem.

April, 2016

Keypad & ADC/DAC Interfacing with 8085 μ p

Guide: Bhargav Goradiya, BVM VVNagar

- Interfaced 4x4 keypad & ADC/DAC (0800/0808) with Intel 8085 μ p using 8255 PPI.

October, 2015

Mod-100 Counter

Guide: Anish Vahora, BVM VVNagar

- Implemented a Mod-100 Counter using IC-7490 (Decade Counter) & IC-74248 (BCD to 7-segment Decoder) that loops through 00-99.

Projects (Personal)

Skills

Languages (Programming)

Python, C/C++, ASM (AVR, x86), PowerShell, HTML/CSS, JS.

Languages (Spoken)

English, Hindi, Gujarati.

Software Stack

Python (SciPy stack, OpenCV, Flask, Selenium).

References

[Dr. Bhargav Goradiya](#)

[Prof. Anish Vahora](#)

Head of Dept., Electronics & Communication Dept. (BVM Engineering College, VVNagar)

Asst. Professor, Electronics & Communication Dept. (BVM Engineering College, VVNagar)