Chaitanya Tejaswi

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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)**
	• Completed Bachelor of Engineering (B.E.) in Electronics & Communication with a CGPA of 8.35.
June 2014	**OSEM High School, Morbi**
	• Completed HSC from CBSE Board with an aggregate of 80.2%.
June 2012	**Delhi Public School, Gandhinagar**
	• 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** (*Chaitanya Tejaswi, Bhargav Goradiya, Ripal Patel;* **Journal of Computer Technology & Applications. 2018; 9(3): 24–29p.**) 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.

Projects (Academic)

April, 2018	**Pico-Projector based Automation** *Guide: Bhargav Goradiya, BVM VVNagar* • 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* • 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* • Wrote sample codes for automation using QR codes.
October, 2016	**GSM Communication with AVRµc** *Guide: Anish Vahora, BVM VVNagar* • Implemented serial communication between AVRµc (ATmega32) & GSM Module (SIM300).
April, 2016	**Filter Implementation using MATLAB** *Guide: Robinson Paul, BVM VVNagar* • Implemented lowpass and bandpass filters in MATLAB as an application of Sampling Theorem.

April, 2016	**Keypad & ADC/DAC Interfacing with 8085μp** *Guide: Bhargav Goradiya, BVM VVNagar*
	• Interfaced 4x4 keypad & ADC/DAC (0800/0808) with Intel 8085μp 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)

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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	Head of Dept., Electronics & Communication Dept. (BVM Engineering College, VVNagar)
Prof. Anish Vahora	Asst. Professor, Electronics & Communication Dept. (BVM Engineering College, VVNagar)