# YOGESH S IYER

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**HIGHLIGHTS**

* **1.5+ years** of software development experience with strong analytical and problem-solving skills.
* Proficient in software development using **C, C++, Java and Python** programming languages along with **Tensor Flow, Keras**.
* Excellent communicator and can interact effectively with clients, engineering and management groups.

# EDUCATION

**UNIVERSITYOFTORONTO** *Toronto,Canada*

Master of Engineering (MEng) in Electrical and Computer | GPA 3.5/4.0 [Sep 2018-April 2020]

* **Courses:** Cloud Computing, Digital Image processing & Its applications, Seminar in Identity Privacy and Security, Project Management, International Business for Engineers, Embedded Systems (*ongoing*)
* **mphasis:** ELITE (Entrepreneurship, Leadership, Innovation & Technology in Engineering)

**BIRLA VISHVAKARMA MAHAVIDYALAYA (BVM)** *Gujarat,India*

Bachelor of Engineering in Electronics and Communication | GPA 9.18/10.0 [Aug 2014-Aug 2018]

* **Courses:** Computer programming and utilization, Design Engineering, Digital Electronics, Simulation & Design Tools, Analog Circuit Design, VLSI Technology, Antenna & Wave Propagation, Fundamentals of Image Processing
* **Teaching Assistant:** Evaluated and managed tutorial/lab sessions and held one-to-one office hours for doubt clarification sessions for first year students. (Analog Electronics)

# RELEVANT PROJECTS

**Money Planner Webapp using Amazon Web Services (AWS)** [Sep 2019-Dec 2019]

Course: Cloud Computing | Prof: Eyal De Lara | Programming done using Python (Flask), HTML, CSS

* Presented idea of a webapp for planning money expenditure that allows user to upload an image of receipt, extracting text from it and calculating the expenses category wise and put it in a pie chart.
* It has a search bar to search for specific category of receipts & face unlock for the login purposes.
* AWS services such as: Lambda, S3, Dynamo DB, Textract, Rekognition etc. has been used. **(**[report](https://drive.google.com/drive/folders/1XzSoxYYcGkyV6PHmAzYSpE7FdeATCAKW)**)**

**Localizing Vehicles via Semantic Segmentation** [Sep 2019-Dec 2019]

Course: Digital Image Processing | Prof. K.N. Plataniotis| Programming done using Python (Keras), MATLAB

* Presented idea of a semantic segmentation algorithm on the urban scenes, to investigate its performance on autonomous driving.
* For semantic segmentation Deep Seeded Region Growing (DSRG) technique is used which is a **Neural Network** whose objective is to classify whole image in either an object group or background.**(**[report](https://drive.google.com/drive/folders/1sDbsJNctagYu-tPPCVmaz8Q7p0G-AquF)**)**

**Data Protection using Digital Watermark** [Jan 2019- Apr2019]

Course: Seminar in Identity, Privacy and Security | Prof. K.N. Plataniotis| Programming done using MATLAB

* Presented idea of implementing the digital watermark in spatial domain to help reduce the copyright infringement. The embedded watermark can easily survive the JPEG compression and noise addition given to the image.([report](https://drive.google.com/drive/folders/1PVoAHQ1ntklMCuDBjwrVfm4wwq6Qsoml))

# TECHNICAL SKILLS

**Operating Systems:** Linux, Unix, Windows, Raspbian  
**Languages:** C, C++, Python, JavaScript, Verilog  
**Software and Tools:** AWS (EC2, Zappa, Lambda, IOT, S3), TensorFlow, Keras, Proteus, MATLAB, Simulink, KEIL, Cadence Virtuoso, OrCAD

**RELEVANT EXPERIENCE**

# Electronics Technology Assistant [Sept 2019- Present] University of Toronto, Canada

* Microcontroller programming including Raspberry Pi andArduino
* Experience in soldering PCBs and Debugging PCB and building electronicdevices.
* Technologies used: Arduino, Raspberry Pi, Proteus, Visual Studio

# Electronics TechnologyAssistant [June 2019- Sep 2019] Code it Hacks, Toronto, Canada

* Tutoring children from age 5 to 12 yrs.
* Teaching them fundamentals of electronics, Microbits, Arduino programming, SCRATCHprograms

# Trainee [June 2017- Aug 2017]

# Emerson AutomationSolutions,Vadodara, India

* Learned about the devices like orifice, turbine and ultrasonic meters used in conjunction with flow measurement of oil and naturalgas.

# PUBLICATIONS

# Automated Grocery Merchandising System, International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064, Volume 7 Issue 5, May 2018, Yogesh Sivasankaran1 , Ankur Varma2 , Darshi Contractor3 ([report](https://www.ijsr.net/archive/v7i5/ART20182712.pdf))

# AWARDS

### Recipient of the Shri M.D. Patel Merit Medal for securing highest marks in Electronics & Communication Engineering branch in final examination, Institute of Engineers, India (2018)

### Awarded by the BVM Central Committee for highest CGPA in 3rd year (2018)

### Awarded for obtaining Highest Grade in engineering subjects of Engineering Electro magnetics and Electronics & Communication in 3rd level (2017)

### Awarded for scoring the 2nd Highest CPI in 2nd Level (2017)

### Recipient of the Dewang Mehta IT awards for being the college topper in 5th and 8th Semester

# ADDITIONAL INFORMATION

* PCB team lead at University of Toronto Hyper loop
* Fluent in English and Hindi.
* Excellent communication and presentation skills
* Organized and volunteered in various events.
* Eligible to work in Canada after graduation with an intention to apply for Canadian Citizenship.