

# Vignesh Gopal

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## EDUCATION

### UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

Expected Graduation Date:  
May 2019

### BS DOUBLE MAJOR IN ELECTRICAL ENGINEERING AND ENGINEERING PHYSICS

College of Engineering  
James Scholar Program  
Deans List  
Cum. GPA: 3.75 / 4.0

### WEST WINDSOR-PLAINSBORO HIGH SCHOOL SOUTH

Grad. June 2015 | Plainsboro, NJ

## LINKS

LinkedIn:// vigneshgopal  
Personal Website:// vigneshgopal.me  
GitHub:// vigneshgopal

## COURSEWORK

Analog Systems and  
Signal Processing  
Intro to Quantum Physics  
Linear Algebra  
Differential Equations Plus  
Semiconductor Electronics  
Fields and waves I  
Relativity and Math Applications

## SKILLS

### PROGRAMMING

#### Proficient :

Python  
Javascript  
C  
HTML  
MATLAB  
L<sup>A</sup>T<sub>E</sub>X

#### Familiar:

Unity  
OpenCV  
C#  
Java

## EXPERIENCE AND PROJECTS

### OTCR CONSULTING | CONSULTANT

September 2015 – Present | Urbana, Illinois

- Chosen as one of 10 Freshman from a competitive pool of over 300 applicants for top consulting group on campus dealing with clients ranging from Non-Profits to Fortune 500s
- Worked with a wide host of clients including a start-up dealing with real time location services as well as a private school in Chicago

### SPARTAHACKS | ASSISTIVE OBJECT IDENTIFICATION FOR THE VISUALLY IMPAIRED

February 2016 | Lansing, MI

- Awarded best use of Clarafai API and and for best use of Microsoft Technology competing against 1000+ teams
- Created an object identification device that could detect where objects were in relation to the user using
- One of the first people ever to interface Microsoft Kinect 2 with a Mac

## RESEARCH

### INNOVATIVE COMPOUND SEMICONDUCTOR (ICOR) LABORATORY | UNDERGRADUATE RESEARCH ASSISTANT

Jan 2016 – Present | Urbana, IL

Worked under Professor Can Bayram for research in next generation transistor devices. Responsible for creating flexible piezo-GaN samples for uses in flexible transistor and LED devices. Experience with procedures such as **MOCVD**, substrate removal through **dry and wet etching (ICP and HF)**, and taking hall measurements using the **4 point van der Pauw technique**.

### PRINCETON UNIVERSITY - THOMPSON LAB | RESEARCH INTERN

June 2016 - August 2016 | Princeton, NJ

Worked under professor Jeff Thompson to develop methods of isolating individual Er ions in controlled quantum states for applications in quantum computing and information. Developed a method of controlling the specific quantum state of a trapped ion in a diamond lattice using a perfectly linear laser sweep that was calibrated to the sub-picometer level.

## AWARDS

2016	National	Best use of Spartafai API (Against 1000+ people)
2016	National	Honorable Mention for Best Use of Microsoft Technology
2016	University	James Scholar Honors Program (3.5+ GPA)
2016	University	Dean's List (Top 20% of class)
2015	University	University Achievement Scholarship
2015	National	Thomas J Watson Scholarship Recipient (One in 100 out of 2500+)

## INTERESTS

- Rock Climbing
- Violin
- Nanotechnology