Vignesh Gopal

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14 Paddock Drive, Plainsboro, NJ 08536

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

Digital Circuit Design
IC Device Theory and Fabrication
Semiconductor Electronics
Fields and Waves I & II
Analog Systems and
Signal Processing
Quantum Mechanics I & II
Linear Algebra
Differential Equations Plus
Relativity and Math Applications

SKILLS

PROGRAMMING

Proficient :
Python
C
Verilog
MATLAB
LaTeX

Familiar:
Unity
OpenCV
C#
Java
Javascript

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 substrate removal through dry and wet etching (ICP and HF), hall measurements, and MOCVD

PRINCETON UNIVERSITY - THOMPSON LAB | Undergraduate 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.
- Created a high response PID controller using an FPGA on a Red Pitaya Board for use in controlling laser power output

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

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+)