**Varun Narayan**vmn23@cornell.edu | (609) 937-5507

**EDUCATION  
Cornell Tech,** New York, NYMay 2019

***Master of Engineering in Computer Science***

*Coursework includes:* Applied Machine Learning, Networked and Distributed Systems, Algorithms and Data Structures

**Princeton University,** Princeton, NJ Cumulative GPA: 3.5/4.0 May 2016  
***Bachelor of Science in Engineering* *in Mechanical and Aerospace Engineering***  
*Certificates:* Computer Science; Robotics and Intelligent systems  
*Coursework includes:* Algorithms and Data Structures; Introduction to Programing Systems; Advanced Programming Techniques; Statics of Structures (A+); Microprocessors for Measurement and Control  
*Extra-curriculars:* Grader for Algorithms and Data Structures ’14-‘15 Intro to Comp SciFall ’15 – Spring ’16  
 Outdoor Action, *Leader and Trainer* – Led 3 freshmen orientation backpacking trips, 2013-15

**PROFESSIONAL/RESEARCH EXPERIENCE**

**Robert Bosch LLC,** Waltham, MA August 2016 – August 2018  
*Associate Engineer in Electric Drives - Thermal Systems (ED-TS)*

* Defined product requirements for 6 platforms as part of international Thermal Management for Electric Vehicles (TM4EV) team to evaluate effect of electrification on Electric Drives portfolio
* Developed an innovation idea for a concept heat-pump to prototype through rounds of funding
* Led intern activity to build up hardware thermal lab for validation of product requirements
* Designed, built-up and validated full vehicle simulation model of Battery Electric; co-author of paper presented at SAE Thermal System Symposium 2017 & 2018 on this activity
* Primary point of contact for global simulation activities for the TM4EVs project

**CHAOS Lab and FMTP Lab of Princeton University,** Princeton, NJ Summer 2015  
*Undergraduate Research Intern*

* Analyzed experimental flow data using ANSYS Fluent as well as Particle Core chips for data collection
* Integrated multiple layers of hardware and software for data collection and processing

**Gasdynamics Lab of Princeton University,** Princeton, NJ Summer 2014  
*Undergraduate Research Intern*

* Simulated flow on the Slippery Liquid Infused Porous Surfaces (SLIPS) to understand the novel flow structure
* Designed LabView test interface for and calibrated a channel flow experimental setup

**SELECTED PROJECTS**

* **Product Studio** – Working with Accenture on project to help low-to-medium skilled workers prepare for workplace of the future
* **Jolt –** *Swift* **-**Apple Watch app to detect sleep and wake the watch wearer up if desired
* **Simple AI –** *Java* **-** Adaboost and Decision Stumps implementation of classification system
* **Ball swapping trains** *– C and Assembly* **-** Integrated Hardware, including 3-d printed parts and Legos, and Software to control toy train cars and perform a swap of payloads

**SKILLS/OTHER  
 Technical skills:** *Experienced* - Java, Python, C   
 *Competent* - Assembly language, HTML, CSS, JavaScript, Swift

*Misc* - Metalworking, CAD, GT-Suite, ANSYS Fluent

**Work Authorization:** US citizen