

Varun Gadh

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Education **Carnegie Mellon University: B.S. in Mechanical Engineering – May 2018**
• Minor in Rapid Prototyping; GPA: 3.62/4.0; Dean's List High Honors, Fall '16 & Fall '17

Experience **Autodesk: Fusion 360 Student Catalyst – Fall 2017 - Spring 2018 (Current)**
• Represent Autodesk by modeling & building projects; selected as one of 30 students nationwide
• Share projects on social media, help teach other students about Fusion 360, hold maker events

Deeplocal Innovation Studio: Mechanical Engineering Intern – Summer 2017
• Collaborated w/ design & integration leads to build 8ft robotic Android Oreo statue in 6 weeks
• As mechanical lead, modeled parts & mechatronics for robot used to announce new Android OS
• Created prototypes & fabricated statue head used SolidWorks, CNC, catalog, & waterjet parts

Honda Motor: Engineering Intern – Summer 2016
• Prototyped & proposed digital product to R&D, marketing & corporate; now under development
• Found energy-saving solution for Honda Smart Home w/ geothermal heat transfer data

Northrop Grumman Aerospace: Technical Intern – Summer 2015
• Analyzed & found robotic arm manufacturing errors from 30k+ lines of data (self-taught VBA)
• Selected by sector VP to present results to Aerospace Systems president in quarterly review

Leadership **Intermediate Rapid Prototyping: Teaching Assistant – Fall 2017 - Spring 2018 (Current)**
• Prototype & build new assignments, assist instruction for Prof. Dave Touretzky for three courses

Cognitive Robotics: Teaching Assistant – Spring 2018 (Current)
• Create original project examples, repair robots, & intermittently give lecture for senior CS course

CMU Independent Musicians Organization: President – 2015-2016
• Built, trained, & led board of 11 executive officers for club of 300+ members
• Raised \$5000+ for & organized Pennsylvania's first musical hackathon (www.hackasong.co)

Skills SolidWorks • Rhino, Grasshopper • CATIA • MasterCAM • HSMWorks • FEA • GD&T
VBA • Excel • PowerPivot • MATLAB • HTML/CSS • Java • Arduino • Soldering
3D Printing • CNC • Mill • Lathe • Native English • Fluent Hindi

Courses Engineering Design I, II • Design for Manufacture & Environment • Human-Machine Virtuosity
Design for IOT • Integrated Product Conceptualization • Product Design Fundamentals

Projects **Urban Terrain Traveling Robotic Mates, Fall 2017 – Spring 2018**
• Built pair of robotic rovers that use unique mechanical setup and custom wheels to travel terrain
• Served as mechanical lead in team of five students; project was sponsored by local police

MINIM Miniature Minimal Robotic Artist, Spring 2018
• Designed & built robotic artist from scratch with four others as part of three-day hackathon
• Project uses computer vision along with Arduino & additional hardware to draw portraits