

# Dhruv Mehta

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## EDUCATION

**GEORGIA TECH** | ATLANTA, GA  
BS in Mechanical Engineering  
& Minor in Computer Science  
Graduated Dec 2015  
High Honors | GPA: 3.5  
Faculty Honors (2011, 2012)  
Dean's List (All Semesters)

## COURSEWORK

### UNDERGRADUATE

Engineering Graphics  
Thermodynamics  
Fluid Mechanics  
Heat Transfer  
System Dynamics and Control  
Machine Design  
Deformable Bodies  
Statics  
Internal Combustion Engines  
Manufacturing Processes  
Engineering Materials

## SKILLS

### PROGRAMMING

Java  
C  
Python  
MATLAB

### SOFTWARE PACKAGES

MS Office  
AutoCAD  
SolidWorks  
ANSYS  
Inventor

## PERSONAL DETAILS

Nationality | Indian  
Visa Status | F-1 (OPT/EAD)  
D.O.B | 07/31/1993  
Languages | English, Hindi  
Gujarati

## EXPERIENCE

**TREASURY AND CAPITAL MARKET INTERN** | UNITED ARAB BANK  
May 2014 – July 2014 | Dubai, U.A.E

- Worked in the Foreign Exchange(FX) Market. Developed software in MATLAB to assist in buying various currencies in Spot and Forward transactions.

**RESEARCH ASSISTANT** | GEORGIA INSTITUTE OF TECHNOLOGY  
May 2013 – Dec 2013 | Atlanta, GA

- Developed computational tools for visualizing and analyzing the insertion of Carbon Nanotubes (CNT's) in different materials.
- Developed source code in MATLAB to generate 3-D Representative Volume Elements (RVE's) of the material with the CNT inserted within the matrix of the material.
- Performed macro and micro structural level analysis on the behavior of CNT's when inserted in different materials.

## PROJECTS

**SEDAN TRUNK REVAMP** | SENIOR DESIGN (GENERAL MOTORS)  
Aug 2015 – Dec 2015 | Atlanta, GA

Working directly with General Motors as the lead sponsor, the project was to revamp the trunk for a 10-year sedan with special attention paid to the needs of the elderly. Our team devised a solution which allows users to access the trunk vertically and increases the general trunk storage space by 10 cubic feet.

**PROJECTILE LAUNCHER** | DESIGN COMPETITION  
Jan 2013 – May 2013 | Atlanta, GA

Worked in a team of four to design and build a machine to take part in a competition against other teams. Team placed in the top 16 out of 64 teams. Major contributions to the machine were a projectile launcher and a redesigned lever system.

**IRON-MAN SUIT** | SOLID MODELLING  
Jan 2012 – May 2012 | Atlanta, GA

Redesigned and replicated the Iron-Man suit in SolidWorks.

## CORE COMPETENCIES

- Can support, create and develop mechanical drawings or assist in the design and fabrication of prototype hardware.
- Able to perform static, dynamic and/or heat transfer analysis on complex structural components and functional systems.
- Understanding of various manufacturing parts like Gears, Bolts, and Shafts. Able to accurately analyze the strength of these parts and the associated safety factors.
- Ability to model mechanical systems and analyze transient and frequency response. Familiarity with design and analysis of a Feedback Control System.