

## Name

phone	address	email
-------	---------	-------

### Education

*B.S. Mechanical Engineering 5/16*

University of

- Competing in the SpaceX Hyperloop Pod Competition in which pods will travel through reduced-pressure tubes at high speeds (senior design project)
  - Member of one of 22 student teams to advance to the final stage of the competition (115 teams total)
  - Utilized thermodynamic principles combined with analytical and numerical methods to determine the speed at which choked flow of air will occur in the tube
  - Designed and manufactured a lateral stability system for the rail-guided pod
  - Created a fiberglass layup of an aerodynamic body shape
  - Modeled the heat generation of disc brake rotors by using transient analysis techniques
- Practiced problem-solving skills: defining purpose, proving process, presenting results
- Developed knowledge of physics, dynamics, vibrations, thermodynamics, finite element analysis, flow simulation, measurement systems, geometric dimensioning and tolerancing, manufacturing processes, design analysis, requirement verification, project management (communication, process, documentation)

### Skills

#### *Tools*

CNC mills/lathes wind tunnels, shop/measurement tools, material testing systems, strain gages

#### *Software*

Solidworks assemblies (stress analysis, thermal analysis, flow simulation), MATLAB, MathCAD, LabVIEW, Microsoft Office

### Work Experience

Target Corporation 11/07 – 8/15

- Managed team members in electronics, produce, and dairy departments
- Awarded "Favorite Team Member of 2013" out of over 100 employees

