

HANS KUMAR

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Current Address: SMC 5160, 5032 Forbes Avenue, Pittsburgh, PA 15289 **Cell:** (484)-802-3730

Permanent Address: 16106 Nursery Ln, Gaithersburg, MD 20878 **U.S. Citizen**

EDUCATION

Carnegie Mellon University Pittsburgh, PA

B.S. in Mechanical Engineering, May 2019

Double Major in Biomedical Engineering

GPA: 4.0

Spring-Ford High School Royersford, PA

High School Diploma, June 2015

GPA: 100.925/100.000

PROJECTS

Mousetrap Car Project, Carnegie Mellon University, Fall 2015

- Built a small car using laser cutting and 3D printing techniques that could travel 15 feet forward and 15 feet backwards with only the power of a Mousetrap
- Worked with a team and made several improvements to the design of the car

Computer Aided Wrench Design, Carnegie Mellon University, Fall 2015

- Designed an aluminum wrench using Creo Pro/E and analyzed the design for stress concentrations with ANSYS
- Manufactured a prototype wrench using a CNC milling machine

Archery Robot for Penn Robolympics, University of Pennsylvania, Summer 2011

- Designed and manufactured automated archery robot that could detect and fire at lighted target
- Reached the finals of the competition and got second place overall

WORK EXPERIENCE

Produce Junction, Grocery Store Phoenixville, PA

Cashier, Summer 2015

- Interacted with customers and managed the cash register
- Took store inventory and ensured sufficient stock of all produce

Team Children Collegeville, PA

Volunteer Tech, Summer 2014

- Refurbished old computers by updating software and hardware
- Donated and sold computers to children in underprivileged schools

LEADERSHIP

Vice President of Phi Delta Theta Phikeia Epsilon Class, 2016-Present

- Work to plan and implement social and service events for fraternity

Center Snare of Spring-Ford Marching Band, 2012-2015

- Managed tempo across entire marching band of 120 students
- Helped to guide new members and maximize rehearsal process as percussion section leader

Secretary of Class of 2015, Spring-Ford High School, 2012-2015

- Organized events and fundraisers to benefit the class of 2015 (High School Prom, Pep Rally, Food Drive, Senior Banquet)

SKILLS

Software: Microsoft Office, SolidWorks, Creo Pro/E, Python (taking 15-112 in Spring 2016)

Machines: CubePro 3D Printer, CNC Mill, Laser Cutter

Language: Conversant in Hindi

ACTIVITIES

CMU Bhangra, Fall 2015-present

Carnegie Mellon Racing, Fall 2015-present

Marching Band and Indoor Percussion, Spring-Ford High School, 2011-2015

Jazz Band, Spring-Ford High School, 2011-2014

HONORS

World Championship with Reading Buccaneers Drum and Bugle Corps, Summer 2015

National Merit Scholarship Finalist, Spring 2015

Atlantic Coast Champions with Spring Ford Marching Band, 2011-2015

