Ashwin Kishen

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EDUCATION

University of Pennsylvania (Philadelphia, PA)   May 2020
School of Engineering & Applied Science
- Master of Science in Engineering in Mechanical Engineering & Applied Mechanics
- Bachelor of Science in Engineering in Mechanical Engineering & Applied Mechanics
- Minor in Mathematics

The Wharton School
- Bachelor of Science in Economics, Concentration in Management

GPA: 3.94/4.00 | Dean's List 2016-2020

EXPERIENCE

Aerate: Co-Founder & CEO (Philadelphia, PA)   Aug 2018-Aug 2019
Founded Aerate with my engineering senior design team to compete in the Global Cooling Prize arranged by the Indian Government to develop a novel air conditioner which is 5X more efficient than current systems.
Achievements with Aerate include:
- Won first place at the Penn Wharton Entrepreneurship Startup Challenge in competition with 120 companies. Additionally, won three pitch competitions in Penn Engineering.
- Developed the business case for efficient air-conditioners to secure over $80k in non-dilutive funding.
- Spoke publicly at the NASDAQ Closing Bell Ceremony, on Wharton Business Radio, and many other venues.
- Selected and managed a global team of 6 contractors and interns.
- Filed a provisional patent application on this innovative technology.

Boeing: Stress & Structures Analyst Intern (Philadelphia, PA)   May 2019-Aug 2019
Analyzed thousands of data points from multiple sources to check safety critical components of the new KC-46 Pegasus tanker airplane. This analysis will lead to increased operational capability for the US Air Force.

Boeing: Internal Consulting Intern (Seattle, WA)   May 2018-Aug 2018
Worked with the executive leadership team of the largest division of Boeing Global Services to redesign the organization. This resulted in restructuring program management of a $2 billion business. Integrated key performance indicators into a new digital dashboard which increased the data update rate from quarterly to weekly, leading to faster correction of emerging issues across the entire global organization.

Wazer: Component Design Intern (Shenzhen, China)   May 2017-Aug 2017
Joined a small startup to manufacture the world's first desktop waterjet cutter. Oversaw component design and procurement for 1/3rd of the product. Saved $10k in rework of circuitry, reduced electrical wiring cost by 10%, and sourced a custom component in under two weeks—significantly faster than the industry average.

NASA: Robotics Intern (Hampton, VA)   Jun 2016-Aug 2016
Developed and verified a robot for assembling structures in Space. Delivered three months ahead of schedule by applying iterative rapid prototyping. Published a conference paper for the 2017 International Conference on Intelligent Robots & Systems.

SERVICE & CLUBS

Access Engineering: President   Sep 2015-Jan 2019
Volunteered with and led a STEM education club to teach free hands-on engineering lessons for 80 Philadelphia high school students each semester. Mentored four former program participants who were selected as Access Engineering volunteers. Raised funding for the program after significant cuts by the main backer.

Engineering Deans' Advisory Board: Board Member   Sep 2015-May 2019
Collaborated with the dean and faculty to develop a new interdisciplinary freshman experience for incoming engineers as the only student involved in the initiative. Audited university support of student activities.

Otento Space: Consultant *(through Penn Aerospace Club)*   Mar 2016-May 2016
Advised a small New Space startup on changing their focus to become a Cube Satellite general contractor.

SKILLS & INTERESTS:

Technical Skills: Machine Learning in Python/Pytorch (Intermediate); Predictive Analytics in R, Matlab, Excel (Intermediate); Mechanical Engineering (Advanced); Financial analysis (Intermediate);
Professional Skills: Entrepreneurship; Strategy; Business communication; Leadership; Critical thinking
Personal Interests: Volunteer teaching; Cultural & Global News; Landscape Photography; Backpacking; Cooking Indian & Italian; Conservation & Sustainability; Podcasts; History;