

PRATEEK SAHAY

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EDUCATION

University of California, Berkeley

May 2022

Master of Business Administration, Haas School of Business

MEng, Mechanical Engineering, Focus in Control of Autonomous Systems, College of Engineering

- Technology Club, AI Affinity Group, Participant in Haas Tech Challenge, Berkeley Marketplace side project

Worcester Polytechnic Institute (WPI), Worcester, MA

May 2015

Bachelor of Science, Mechanical Engineering

Bachelor of Science, Robotics Engineering

- Rho Beta Epsilon Honor Society, Dean's List
 - Distinguished senior project: Self-driving golfcart
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EXPERIENCE

Uber Advanced Technology Group, Pittsburgh, PA

2019-2020

Subsidiary of Uber developing self-driving cars

Motion Planning Software Engineer

- Designed and scaled blended LIDAR simulation tool by obtaining buy-in from multiple teams and leading cross-team production scale-up. Lowered bugs by 50% prior to physically testing vehicle on track. Eventually automated scenario creation component to further promote scalability.
- Enabled developers to continue testing against adverse driving events by devising a method to restore 33% previously unrecoverable logs of such events, thus further improving the underlying automation software.
- Co-led technical development of pipeline aimed at automatically aggregating metrics on vehicle performance in current cities and predicting performance in new cities. Worked closely with PM to prioritize team tasks based on severity and frequency. Result was a dashboard that gave developers live feedback on current performance.

Sikorsky Aircraft, Stratford, CT

2015-2019

Manufacturer of helicopters with an autonomous systems division

Perception and Motion Planning Software Engineer

- Led 3-person team to develop perception stack from concept to demonstrations for Department of Defense (DoD) program. Chose and delegated priorities based on larger goals of the organization and planning team. Team eventually won out of a cohort of 3 companies and received a multimillion-dollar contract as a result.
- Achieved consensus between engineering team and front-end design team on scheme for critical human interface device after substantial deliberations. Resulted in seven patents, demonstrations, and substantially increased customer satisfaction.
- Developed safety-critical landing-zone (LZ) algorithm from concept to production. Algorithm automated a previously error-prone manual LZ detection process and won the President's award at the company.
- Initiated meetings on behalf of engineering team with DoD and other customers. Presented product pitches, collected feedback, and helped translate into requirements for the engineering team.

Edowment, Stratford, CT

2016-2018

Online social network for alumni and promoting donations to schools

Founder, CEO

- Conducted customer interviews to define product requirements and competitor analysis to determine product-market fit. Led engineering development from concept to production and strategic decisions.
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ADDITIONAL

- Hobbies: Badminton, woodworking.
- Mentored FIRST Robotics teams and volunteered at annual Essence of India event in hometown.
- Technical skills: Linux, C/C++, Python, Java/Android, ROS, HTML/CSS/JS, SolidWorks, CNC, waterjet, fiberglass.