Imran Ahmed

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EDUCATION

University of Cambridge, Gonville & Caius College **2018 (Expected)**
Candidate for Masters in Information Engineering '18
1st Year Classification: ***First Class****, 2nd Year Classification:* ***First Class****, MIT GPA:* ***5.0/5.0***

Massachusetts Institute of Technology **2016 – 2017**
Cambridge-MIT exchange student concentrating in Computer Science

EXPERIENCE

Vivacity Labs, London: *(Computer Vision and Machine Learning Start-up) – Product Management Intern* **June '17 to Present**

- Managing the development of a mobile transport application ("MotionMap") to commercialise the world's largest city-wide smart-sensor deployment in Milton Keynes, UK. Expected uptake is ~50,000 users.
- Leading creation of internal tools to reduce time spent manually annotating facilities within cities by more than two-fold.
- Facilitating the installation of our sensor network by writing algorithms to automate sensor placement.

Interactive Robotics Lab, MIT: *(Robotics Research Group) – Undergraduate Researcher* **Sept. '16 to June '17**

- Developed an astronaut tracking system for the International Space Station as part of a joint research project between MIT's Interactive Robotics Lab and NASA Space Technology Research.
- This will be implemented on an autonomous robot ("Astrobee") which will be deployed on the ISS by 2018.

Vivacity Labs, London: *(Computer Vision and Machine Learning Start-up) – Software Developer Intern* **June to Aug. '16**

- Upgraded an outdated machine learning toolkit to give a 300% increase in training performance.
- Designed an algorithm to optimise a neural network by automatically identifying incorrect output for further retraining and fine-tuning. This automated what was previously a time-consuming manual task.
- Produced scripts to automate data retrieval from several sources for use in training machine learning algorithms.

Cambridge University Eco Racing, Cambridge UK: *(Solar Vehicle Development) – Business Manager* **Oct. '15 to June '16**

- Led a 10-person team to raise funds for this student-led organisation with an operating budget in excess of £1m.
- Overhauled the team's former sponsorship structure and implemented a formalised system to facilitate fundraising.
- Sourced funds to employ a team of full-time students which allowed us to improve the quality of our vehicle design.

RECENT EXTRACURRICULAR PROJECTS

Hack Cambridge **Jan. '17**

- Created SpatialRL, a novel platform to facilitate the training of Reinforcement-Learning agents using Unity and SpaitalOS.
- Our team was awarded the SpatialOS Prize by Improbable (a cloud-based simulation company) at the event.

Automata Systems **Sept. '16 to Present**

- Awarded $5000 funding as part of the MIT Sandbox Innovation Fund to develop a venture in advanced sensor analytics.

Facebook Global Hackathon Finals **Nov. '16**

- Created an algorithm to compress educational videos by 100x to reduce the data cost of accessing online education.
- Our team received a prize and we productised and donated our work to DotLearn, an MIT-based education startup.

Hack Cambridge **Feb '16**

- Created a device which predicted the consumption rate of perishables in a home and automatically reordered supplies.
- Our team was awarded 2nd place at this competitive event out of >70 teams.

AWARDS AND ACHIEVEMENTS

2017 – Runners-Up, RAEng Future of Engineering Prize: A national prize for engineers who display entrepreneurial talent.

2015 & 2016 – Scholarships to Caius College, Cambridge: Awarded scholarships for my performance in my Tripos Examinations.

2016 – RAEng Engineering Leaders Scholarship: Awarded a £5,000 scholarship for demonstrating strong leadership potential.

2014 – ARM Prize: Awarded team prize for the best robot in a competition for 1st year Cambridge Engineers.

2013 – Harvard Book Prize: Awarded academic achievement prize by the Harvard Club UK.