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

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- Upgraded an outdated machine learning toolkit to give a 300% increase in training performance.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 net 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.

Ultra Electronics Controls, Cambridge UK: *(Aerospace & Electrical engineering) – Circuit Design Intern*   Jul. to Aug. '15
- Developed high-level overviews of a safety-critical avionics system and identified areas for improvement in order to implement a safer design.
- Built software to automate the time-intensive manual process of cross-checking materials with EU-compliant standards.

RECENT EXTRACURRICULAR PROJECTS

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 MIT   Sept. '16
- Created a Messenger bot that analysed natural language input and provided curated dating advice for users.
- Our team was awarded the Facebook Prize at MIT's flagship annual hackathon (comprising of over 1000 students).

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 young engineers who display entrepreneurial talent.

2016 – Senior Scholarship to Caius College, Cambridge: Awarded scholarship for my performance in 2nd year Tripos Examinations.

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

2015 – Junior Scholarship to Caius College, Cambridge: Awarded scholarship for my performance in 1st year Tripos Examinations.

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.