

EDUCATION

National University of Singapore

Singapore

Master of Engineering (Biomedical Engineering), CAP: 4.25/5

Aug 2015 - Feb 2018

- **ACM SIGCHI Student Scholarship**, 50th Celebrations of the A. M. Turing Awards
- **Silver Award**, EMedIC Global 2017 (Soft Robotic Exosock for Prevention of Deep Vein Thrombosis & Joint Contracture)
- **Young Creators Award**, IES Prestigious Engineering Achievement Awards 2017 (Florisensors)

Manipal Institute of Technology

Manipal, India

Bachelor of Technology (Biomedical Engineering), CGPA: 9/10

July 2011 - July 2015

- **3rd Rank (Academic Excellence)**, Biomedical Engineering (AY 2012 - 2013)
- **1st Rank (Academic Excellence)**, Biomedical Engineering (AY 2013 - 2014)
- **2nd Rank (Academic Excellence)**, Biomedical Engineering B.Tech Program (2011 - 2015)

EXPERIENCE

Smart Systems Institute, National University of Singapore

Singapore

Research Associate, Human-Computer Interaction (Keio-NUS CUTE Center)

Jan 2018 - Present

Research Engineer, Human-Computer Interaction (Keio-NUS CUTE Center)

Jan 2016 - Dec 2018

Graduate Student Researcher, Human-Computer Interaction (Keio-NUS CUTE Center)

Oct 2015 - Dec 2015

- Managed & steered projects of the Tangible Media group directed by Dr. Nimesha Ranasinghe & Prof. Ellen Do.
- Developed novel technologies (hardware & software) in collaboration with designers (industrial/user experience).
- Raised over **SG\$ 250,000** in seed capital and academic grants for research translation and commercialisation.
- Generated **5 top-tier publications** (ACM CHI '18 & '17/TEI '17/UIST '16), **3 provisional patents** and high-impact projects that have garnered **viral media coverage** (Straits Times/NewScientist/Fox News).
- Showcased projects at prestigious events (Innovfest '17/ACM TEI '17/UIST '16), to media houses (Thomson Reuters/Galileo TV/Today) & **VVIPs** (Deputy Prime Minister/Minister for Communications & Information, Singapore).

PravarJain.com

All Spark - Freelance Designer / Engineer

Nov 2011 - Present

- Co-developed **Laba** and showcased it at the prestigious Cooper Hewitt, Smithsonian Design Museum.
- Created brand identity for start-ups & user interfaces for mobile/web apps.

Advanced Robotics Center, National University of Singapore

Singapore

Graduate Researcher, Soft Robotics (Evolution Innovation Lab)

Dec 2015 - Feb 2018

- Conducted research and developed a soft, stretchable & flexible low-cost sensor suitable for soft robotic applications.
- Presented the work done on the development of the soft sensor at an International Conference (ICBME 2016).

Singapore Institute for Neurotechnology, National University of Singapore

Singapore

Undergraduate Researcher, Biomedical Instrumentation (Biorobotics Lab)

Jan 2015 - June 2015

- Designed and developed a wearable continuous health monitoring & remote diagnostic system.

Sizr Studios

Manipal, India

Founding Partner

Nov 2011 - Sep 2014

- Established, set the vision for & oversaw operations at Sizr, a student start-up that generated **>US\$ 10000** in revenues.
- Laid the inceptive ground work and strategy for Jobspire along with the start-up's founders.

HCG Oncology - Center of Excellence

Bangalore, India

Intern (Department of Biomedical Engineering)

June 2013 - July 2013

- Performed preventive maintenance and calibration of biomedical equipment.

Fortis Hospital - Cunningham

Bangalore, India

Intern (Department of Biomedical Engineering)

Dec 2012 - Jan 2013

- Assisted installation of biomedical devices and trained the nursing staff to use them.

SERVICE, SKILLS AND ACTIVITIES

- Academic services rendered include Program Committee Member @ ACM MM '18 & '17, Student Volunteer @ ACM CHI '17 & reviewer for top conferences/journals in the domain of Human-Computer Interaction (Design/Engineering).
- Skills: rapid prototyping, hardware/software development, user-centered designing, statistical analysis & acad. writing
- Tools: Arduino, Processing, IBM SPSS, MATLAB, µVision, Photoshop, Tracker, Unity, Eagle, SolidWorks, Excel, PowerPoint, C++, Java & HTML-CSS
- **1 out of 50** (world-wide) invited to the Inaugural MITx Global Entrepreneurship Bootcamp (2014), Boston. (declined)
- Student Representative for Biomedical Engineering @ MIT Manipal Curriculum Conclave (2014).

REFERENCES

- Ellen Yi-Luen Do :: Professor - ATLAS Institute, University of Colorado Boulder & Co-Director - Keio-NUS CUTE Center
- Nimesha Ranasinghe :: Assistant Professor, School of Computing and Information Science, University of Maine
- Yeow Chen Hua, Raye :: Assistant Professor, Department of Biomedical Engineering, National University of Singapore