

## EDUCATION

### National University of Singapore (Faculty of Engineering)

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

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

## EXPERIENCE

### Smart Systems Institute, National University of Singapore

Singapore

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

Oct 2015 - Present

- Managed & steered projects of the Tangible Media group directed by Dr. Nimesha Ranasinghe & Prof. Ellen Do.
- Collaborated with designers (industrial/user experience) to develop & evaluate novel sensing, actuation & interaction techniques in augmented & virtual reality.
- Generated **5** top-tier publications (ACM CHI '18 & '17/TEI '17/UIST '16), **3** provisional patents and high-impact projects (Virtual Lemonade/Ambiotherm) that have garnered **viral media coverage** (Straits Times/NewScientist/Fox News).
- Obtained a **SG\$ 180,000** grant to develop and deploy a multimodal assistive platform for sensory disabled individuals.
- 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).

### Advanced Robotics Center, National University of Singapore

Singapore

Graduate Researcher, Soft Robotics (Evolution Innovation Lab)

Dec 2015 - Present

- 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 & Hustler

Nov 2011 - Sep 2014

- Established, set the vision for & oversaw operations @ 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.

### All Spark - Pravar Jain

Freelancer, Designer / Engineer

Nov 2011 - Nov 2014

- 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 that possessed persona & pretty pixels.

### 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 2017, Student Volunteer @ ACM CHI 2017 & 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
- Yen Ching Chiuan :: Associate Professor, School of Design, National University of Singapore
- 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