

# SHOURYA BOSE

## Curriculum Vitae | October 2020

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## EDUCATION

### PhD in Electrical Engineering

**Baskin School of Engineering, University of California, Santa Cruz**

📅 September 2020 – Present    📍 Santa Cruz, CA, USA

### M.Sc. (Hons.) in Mathematics

**BITS Pilani, KK Birla Goa Campus**

📅 August 2014 – December 2019    📍 Goa, India

### B.E. (Hons.) in Electrical & Electronics Engineering

**BITS Pilani, KK Birla Goa Campus**

📅 August 2014 – December 2019    📍 Goa, India

## EXPERIENCE

### Research Associate

**Department of Electrical Engineering, Indian Institute of Science Bengaluru**

📅 January 2020 – September 2020    📍 Bengaluru, India

- Continued work on NCS taken up during Research Internship.

### Research Intern

**Department of Electrical Engineering, Indian Institute of Science Bengaluru**

📅 January 2019 – December 2019    📍 Bengaluru, India

- Interning as a part of the Network & Control Systems Group. I was previously an intern in the group during Summer 2017.
- Research focuses on the topic of Networked Control Systems (NCS).

### Research Intern

**Pixxel Space**

📅 January 2019 – December 2019    📍 Bengaluru, India

- Worked on spacecraft orbit simulation.
- Received experience of working on specialized Aerospace software such as AGI STK, NASA GMAT, etc.

### Intern

**HMT Tractors**

📅 May 2016 – July 2016    📍 Pinjore, Punjab

- Understood the supply chain of tractor manufacturing from raw material procurement to finished product.
- Presented an energy audit of the paint shop and gear assembly shop as a part of internship project.

## SKILLSET

- I enjoy using mathematical analysis and sound first principles to solve challenging engineering problems.
- I also enjoy validating theoretical results by simulating them on software as well as physical testbeds.
- I am well versed with soft skills required to effectively make a point, and communicate efficiently with my colleagues to expedite jobs requiring teamwork.

## COMPUTER SKILLS

- **Programming Languages:** C, C++, MATLAB, Python,  $\text{\LaTeX}$ , x86 Assembly, PSPICE, basic Verilog HDL.
- **Software:** Cadence Virtuoso, LABView, AutoCAD (2D and Isometric), AGI Graphics STK (Aerospace simulation software), Adobe Photoshop and Illustrator.
- **Operating Systems:** MS Windows, macOS, Linux (Ubuntu).

## AWARDS

- Received **Chancellor's Fellowship** for the first year of my PhD studies at University of California Santa Cruz.

## MISCELLANEOUS

- **Hult Prize** is an entrepreneurship competition. It is organized annually by the Hult Institute. The aim of Hult Prize is to encourage entrepreneurial solutions which can help in eliminating massive social issues like poverty. I was part of a four-member team that **won Hult Prize 2015 Goa regional round** held at BITS Goa, following which we **presented our idea** at the **Hult Prize Global Eliminations** held at **Hotel Al-Jumeirah, Dubai**.
- I enjoy college level **Parliamentary Debating**. I have, as a part of different teams from our college, attended more than **eight** intervarsity parliamentary debating tournaments.

# PUBLICATIONS

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- Bose. S, and Tallapragada. P. *Event-Triggered Stabilization under Action-Dependent Markov Packet Drops*. Submitted to **IET Control Theory and Applications**.
- Bose. S, and Tallapragada. P. *Event-Triggered Second Moment Stabilization under Markov Packet Drops*. In **Fifth Indian Control Conference (2019)**.
- Prakash. B, Setia. A, and Bose. S. *Numerical solution for a system of fractional differential equations with applications in fluid dynamics and chemical engineering*. In **International Journal of Chemical Reactor Engineering**, 15(5) (2017).