

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

- Design of orbits for an upcoming satellite constellation by Pixxel Space, and simulation of spacecraft dynamics on said orbits.
- 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, \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 with support of Clinton Foundation among many other nonprofit organizations. 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** intersarsity parliamentary debating tournaments.

PUBLICATIONS

- **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).