SHOURYA BOSE

Curriculum Vitae | January 2021

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in https://in.linkedin.com/in/shourya-bose-8b283010a github.com/shourya01

EDUCATION

PhD in Electrical Engineering

Baskin School of Engineering, University of California, Santa Cruz

September 2020 – Present Santa Cruz, CA, USA

- Area of specialization is control of power systems and smart grids.
- My advisor is Dr. Yu Zhang.

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

Indian Institute of Science, Bengaluru

January 2020 – September 2020 Bengaluru, India

- Continued work on NCS taken up during Research Internship.

Research Intern

Indian Institute of Science, Bengaluru

January 2019 – December 2019 Bengaluru, India

- Interned as a part of the Network & Control Systems Group in the Department of Electrical Engineering. Research focused on the topic of Networked Control Systems (NCS).
- Got published as first author in a conference and a journal paper.

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, 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

- **Bose. S**, and Tallapragada. P. *Event-Triggered Stabilization under Action-Dependent Markov Packet Drops*. Accepted for publication in **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)**.

***** U N O F F I C I A L *****

Name: Bose, Shourya
Student ID: 1851189

Institution Info: University of California, Santa Cruz
1156 High Street
Santa Cruz, CA 95064

Beginning of Graduate Record

2020 Fall Quarter

Program: Electrical & Computer Engineer
Plan: PhD in Electrical and Computer Engineering

Course		Description	Attempted	Earned	Grade	Points
AM	229	Convex Optimization	5.00	5.00	A+	20.000
ECE	240	LinearDynamicalSystem	5.00	5.00	A	20.000
ECE	253	Intro InformtnTheory	5.00	5.00	A	20.000
ECE	280Z	Smart Grids & Data	2.00	2.00	A+	8.000
GRAD	200	Academic Writing	0.00	0.00	S	0.000
GRAD	201	Oral Communication	0.00	0.00	S	0.000
GRAD	202	Reading & Research	0.00	0.00	S	0.000

Academic Standing Effective 12/23/2020: Good Standing

			Attempted	Earned	GPA Units	Points
Term GPA	0.00	Term Totals	17.00	17.00	17.00	68.000
Transfer Term GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined GPA	0.00	Comb Totals	17.00	17.00	17.00	68.000
Cum GPA	0.00	Cum Totals	17.00	17.00	17.00	68.000
Transfer Cum GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined Cum GPA	0.00	Comb Totals	17.00	17.00	17.00	68.000

2021 Winter Quarter

Program: Electrical & Computer Engineer
Plan: PhD in Electrical and Computer Engineering

Course		Description	Attempted	Earned	Grade	Points
AM	230	Numerical Optimiz	5.00	5.00	A	20.000
ECE	241	FeedbackContrlSystm	5.00	5.00	A	20.000
ECE	279	Opt/Control:PowerSys	5.00	5.00	A	20.000
ECE	280Z	Smart Grids & Data	2.00	2.00	A+	8.000

Academic Standing Effective 03/18/2021: Good Standing

			Attempted	Earned	GPA Units	Points
Term GPA	4.00	Term Totals	17.00	17.00	17.00	68.000
Transfer Term GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined GPA	4.00	Comb Totals	17.00	17.00	17.00	68.000
Cum GPA	4.00	Cum Totals	34.00	34.00	34.00	136.000
Transfer Cum GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined Cum GPA	4.00	Comb Totals	34.00	34.00	34.00	136.000

2021 Spring Quarter

Program: Electrical & Computer Engineer
Plan: PhD in Electrical and Computer Engineering

Course		Description	Attempted	Earned	Grade	Points
AM	232	Optimal Control	5.00	5.00	A+	20.000
ECE	275	Energy Market	5.00	5.00	B+	16.500
ECE	291	Tomorrow'sProfessor	3.00	3.00	S	0.000
ECE	297A	Independent Study	5.00	5.00	A+	20.000

***** U N O F F I C I A L *****

Name: **Bose, Shourya**
Student ID: **1851189**

Academic Standing Effective 06/08/2021: Good Standing

			Attempted	Earned	GPA Units	Points
Term GPA	3.76	Term Totals	18.00	18.00	15.00	56.500
Transfer Term GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined GPA	3.76	Comb Totals	18.00	18.00	15.00	56.500
Cum GPA	3.92	Cum Totals	52.00	52.00	49.00	192.500
Transfer Cum GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined Cum GPA	3.92	Comb Totals	52.00	52.00	49.00	192.500

Graduate Career Totals

Cum GPA:	3.92	Cum Totals	52.00	52.00	49.00	192.500
Transfer Cum GPA		Transfer Totals	0.00	0.00	0.00	0.000
Combined Cum GPA	3.92	Comb Totals	52.00	52.00	49.00	192.500

End of *** U N O F F I C I A L ***