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AJINKYA MULAY

SKILLS

Strong Python, C++, Golang, Linux, Git.

Familiar Tensorflow, Pytorch.

EDUCATION

Purdue University

West Lafayette, IN

Ph.D., Electrical and Computer Engineering, GPA: 3.68/4

Aug. 2018 -

Advisors: Xiaojun Lin and Nicolás Michelusi

2018 Active member of HKN (*Eta Kappa Nau*) Beta Chapter

Indian Institute of Technology, Hyderabad

Hyderabad, India

B.Tech (Honors), Electrical Engineering, GPA: 8.88/10

Aug. 2014 - April 2018

2017 **Selected in India-Japan collaborative program** to conduct research in Japan.

2016-17 Undergraduate Teaching Assistant.

2014 Academic Excellence Award.

EXPERIENCE

• Purdue University

West Lafayette, IN

Graduate Teaching Assistant in Electrical and Computer Engineering

Aug. 2018 -

- *ECE20002 (Fall '19)*: Mentoring students to understand basic Electrical Engineering concepts as part of the experimental course, Engineering Fundamentals II.
- *ECE27000 (Fall '18, Spring '19)* Supervised undergraduate students and undergraduate TAs in constructing electrical circuits, using devices and programming using Verilog on CPLD boards.
- **Skills:** Verilog, CPLD, ispLEVER.

• Esaki Lab at the University of Tokyo

Tokyo, Japan

Research Internship with Dr Hideya Ochiai & Dr Hiroshi Esaki

May - July 2017

- Slashed the packet drop rate over a 3G network for IoT-Cloud cloud communication by 99% by developing a dynamic ping-pong connection-management algorithm.
- **Skills:** Golang, Arduino, Linux.

PUBLICATIONS

- *DFC: Dynamic UL-DL Frame Configuration for Improving Channel Access in eLAA*, **A. Mulay**, **A. Basawade**, **B. Tamma** & **A. Franklin**, **IEEE Networking Letters**
- *IoT WebSocket Connection Management Algorithm for Early Warning Earthquake Alert Applications*, **A. Mulay**, **H. Ochiai** & **H. Esaki**, **ACM/IEEE UCC**, **Austin, TX, USA**, **Dec., 2017**.

ACHIEVEMENTS

2018 **Winner and World Finalist for Emergensor** at the *Microsoft Imagine Cup - Japan National Final*.

2016 **Special recognition for young team** and **8th** rank globally in IEEE Signal Processing Cup.