Shivprasad Ganesh Shivratri

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Education

Department of Electrical Engineering - Systems, Tel Aviv University *Tel Aviv, Israel*

M.Sc. in ELECTRICAL AND ELECTRONIC ENGINEERING (**CGPA: 88.5**) *Oct. 2017 - Jun. 2021*

Thesis title: *"Advances in analysis and control of synchronverter"*

Thesis supervisor: Prof. George Weiss

School of Electrical Engineering, Tel Aviv University (TAU) *Tel Aviv, Israel*

B.Sc. in ELECTRICAL AND ELECTRONIC ENGINEERING (EEE) (**CGPA: 91.6**) *Oct. 2014 - Aug. 2018*

Graduated with *"Magna Cum Laude"*

Work Experience

Meivia Global Services *India*

MANAGEMENT CONSULTANT INTERN (FULL-TIME) *Apr. 2023 - Present*

- Conducted comprehensive market research for an international client, identifying potential customers and market opportunities.
- Worked on entrepreneurship book based on the interviews of Indian businessmen.

KLA+ *India*

APPLICATION ENGINEER (FULL-TIME) *Sep. 2023 - Feb. 2024*

- Explaining the tool capabilities to the customers and understanding their requirements.
- Based on the feedback, working with the internal teams to improve the tools.

KLA+ *Israel*

SYSTEM ENGINEER (FULL-TIME) *May 2022 - Apr. 2023*

- Collaborated with Software, Hardware and Electronics teams to write system level requirements for integrating a new focus laser and adding 3 motors to the Optical head of the tool.
- Investigated focus sensor repeatability issues and wrote system requirements with the solution.
- Wrote diagnostics and calibrations for fast focus mechanism in the tool.

Control Systems and Power Electronics Department, TAU *Tel Aviv, Israel*

RESEARCHER (FULL-TIME) *Oct. 2018 - May 2021*

- In **MATLAB/Simulink**, investigated **Synchronverter** algorithm for inverters to make them behave like a Synchronous Generators to take care of power balance, system stability in microgrids where majority of power is supplied using *Renewable Energies*.
- Improved the existing algorithm which will take care of the frequency and voltage deviations from nominal values. *(Under the supervision of **Prof. George Weiss**)*

Control Laboratory, TAU *Tel Aviv, Israel*

LAB INSTRUCTOR (FULL-TIME) *Feb. 2020 - June 2021*

- Supervised the introductory labs in the field of control theory for B.Sc. in engineering students.

Tel Aviv University
Tel Aviv, Israel

Tutor (part-time)
Oct. 2015 - Jun. 2018

- Personal Tutor for engineering students in Physics, Linear Algebra, Calculus, ODE, Control Theory.

Physical Electronics Laboratory, TAU
Tel Aviv, Israel

Intern (full-time)
Jun. 2016 - Aug. 2016

- Fabricated **biosensor** for stress/drought detection in plants made using sputtering gold and photo lithography technique in clean room and tested the sensors on tobacco plants for drought detection. *(Under the supervision of **Prof. Yosi Shacham**).*

Publications

Pietro Lorenzetti, Zeev Kustanovich, **Shivprasad Shivratri**, George Weiss. 2021.The equilibrium points and stability of grid-connected synchronverters. Power Systems, IEEE Transactions on PP(99). [LINK]

Zeev Kustanovich, Florian Reissner, **Shivprasad Shivratri**, George Weiss. 2021. The sensitivity of grid-connected synchronverters with respect to measurement errors. IEEE Access PP(99):1-1. [LINK]

Shivprasad Shivratri, Zeev Kustanovich, George Weiss. 2020. Virtual synchronous machines with fast current loop. IFAC-PapersOnLine 53(2):12422-12428. [LINK]

Honors & Awards

Aug. 2018	***Magna Cum Laude,*** B.Sc. in EEE (2014-2018)	*TAU, Israel*
Mar. 2017	**Dean's Certificate for Outstanding Academic Achievements,** B.Sc. in EEE for year 2015-16	*TAU, Israel*
Mar. 2016	**Dean's Certificate for Outstanding Academic Achievements,** B.Sc. in EEE for year 2014-15	*TAU, Israel*
2014 - 2018	**Full Tution Waiver Scholarship ($60,000),** B.Sc. in EEE, offered by TATA Trust & Israeli Government	*TAU, Israel*

Projects

TAKE Food Delivery
Tel Aviv, Israel

Data Visualization
Nov. 2020

For Business insight, we created data plots from large customer data provided by company.

Computer Vision Course
Tel Aviv, Israel

Machine Learning Project
Jan. 2019

Object Detection and Classification using Tensorflow: trained set of images of different buses with some background and based on the predicted model, detected similar buses in the new images with good accuracy and detection time.

Computer Vision Course
Tel Aviv, Israel

Image Processing Project
Jan. 2019

Generated a panoramic image from 2 given images with few common interest points between them.

Activities

- Participated in **Google Hashcode 2020** and scored a good final score for the given problem statement.
- Attended a 2-day workshop on nanofabrication in the clean room, Tel Aviv University, Nov. 2017.

Areas of Knowledge

Software: Python, MATLAB, C, Simulink, MS Office, HTML(basic), Kotlin(basic)

Languages: English, Hindi, Marathi, Tamil, Telugu

References

Prof. George Weiss

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Tel Aviv University, Israel

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Prof. Yosi Shacham

Emeritus in School of Electrical Engineering,
Tel Aviv University, Israel

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Mr. Pietro Lorenzetti (PostDoc)

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Universite' de Lorraine, France

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