

# Viswanathan Ganesh

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- Website

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## EDUCATION

### CHALMERS UNIVERSITY OF TECHNOLOGY

*Master of Science in Sustainable Electric Power Engineering and Electromobility*

Gothenburg Sweden

August 2021 - Current

### S.R.M INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR

*B.Tech in Electrical & Electronics (Score: 86.4/100)*

Chennai, Tamil Nadu, India

June 2017 - May 2021

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## PROJECTS

- Efficient Solar Car Design and Development, Chalmers Solar Team
- Efficient EV freight Transportation, Chalmers University of Technology REVERE
- Transient Analysis of a Power Distribution Network, Indian Institute of Technology Guwahati
- Efficient Power Distribution Techniques with Power Rerouting

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## PUBLICATIONS

- Navamani, Divya, A. Lavanya, A. Geetha, and Viswanathan Ganesh. "Pathway to investigate and assess the performance of solar ON-Grid plant." International Journal of Ambient Energy (2022): 1-15.[Paper]
- Ganesh, Viswanathan, Ajay Krishna VM, S. Senthilmurugan, and Ajit Ram RR. "Role of Green Buildings in Sustainable Living: Implementation and Impacts." ECS Transactions 107, no. 1 (2022): 189.[Paper]
- Arun Noyal Doss, M., R. Brindha, A. Ananthi Christy, and Viswanathan Ganesh. "IOT-Monitored EV Charging Stations Using DC-DC Converter with Integrated Split Battery Energy System." In Proceedings of International Conference on Power Electronics and Renewable Energy Systems, pp. 659-670. Springer, Singapore, 2022. [Paper]
- Ganesh, V., Senthilmurugan, S., Ananthanarayanan, R., Srinivasan, S.S., Lakshanasri, N.R.S. (2021). Integration Strategies of Renewable Energy Sources in a Conventional Community. In: Fathi, M., Zio, E., Pardalos, P.M. (eds) Handbook of Smart Energy Systems. Springer, Cham. [Paper]
- Arunmozhi, M., Senthilmurugan, S., Ganesh, V. (2021). Design and Operational Strategies for Grid-Connected Smart Home. In: Fathi, M., Zio, E., Pardalos, P.M. (eds) Handbook of Smart Energy Systems. Springer, Cham.[Paper]
- Ganesh, Viswanathan, S. Senthilmurugan, and Rathinam Ananthanarayanan. "Implementation of Peak Shaving Algorithm in an Islanded Microgrid for Economic Power Consumption." In Smart Energy and Advancement in Power Technologies, pp. 49-60. Springer, Singapore, 2023. [Paper]
- Senthilmurugan, S., A. Rathinam, Viswanathan Ganesh, and VM Ajay Krishna. "Simulink Model of Advanced FLISR Intentional Islanding for Smart Distribution Networks." In 2021 7th International Conference on Electrical Energy Systems (ICEES), pp. 79-84. IEEE, 2021. [Paper]
- Ganesh, Viswanathan, VM Ajay Krishna, and RR Ajit Ram. "Safety Feature in Electric Vehicle at Public Charging Station." In 2021 7th International Conference on Electrical Energy Systems (ICEES), pp. 156-161. IEEE, 2021. IEEE 2021 [Paper]
- Ganesh, Viswanathan, S. Senthilmurugan, Ajay Krishna VM, Ajit Ram RR, and Akash Prabhu. "Smart Grid-Meters and Communications-Design, Challenges, Issues, Opportunities and Applications." In 2020 IEEE International Conference on Advances and Developments in Electrical and Electronics Engineering (ICADEE), pp. 1-5. IEEE, 2020.[Paper]
- Ganesh, Viswanathan, and S. Senthilmurugan. "Growth of Green Building Sector and Sustainable Life." In IOP Conference Series: Earth and Environmental Science, vol. 573, no. 1, p. 012033. IOP Publishing, 2020.[Paper]

For more Publications Visit: [\[Google Scholar\]](#), [\[Scopus\]](#)

## EXPERIENCE

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### CHALMERS SOLAR TEAM

*High Voltage Electrical Engineer*

- Lead Engineer for Photovoltaic and MPPT Algorithms

Goteborg Sweden  
March 2022 - Current

### CHALMERS RESOURCE FOR VEHICLE RESEARCH - REVERE

*Intern*

- Design case analysis for Charging Infrastructure considering the need for Electric Vehicles

Goteborg Sweden  
Aug 2021 - Apr 2022

### IIT GUWAHATI

*Research Intern*

- Worked in the field of Power Distribution Networks

Guwahati, Assam India  
Sep 2020 - Jan 2021

### RIZEL AUTOMOTIVE

*Electrical Systems Research Intern*

- Constructed Efficiency Measuring Setup for EV Performance
- Proposed an Efficient Solar PhotoVoltaic Charging Setup For Electric Vehicle and Household Usage

Chennai, Tamil Nadu, India  
Aug 2020 - Sep 2020

### VATIO ENERGY INDIA PVT LTD

*Solar PhotoVoltaic Intern*

- Conducted Overall Review on Solar Panel Orientation for Domestic and Industrial Purposes
- Had an Hands-on Training in PVSol and PVSyst

Chennai, Tamil Nadu, India  
Jul 2020 - Jul 2020

### SRMIST ENERGY CELL

*Field Electrical Engineer*

- Conducted PAT AUDIT for a part of Campus of 20 Acres
- Collaborated with Indo-German Energy Programme, GIZ- BEE, New Delhi, to provide with solutions for Efficient Energy Utilization

Chennai, Tamil Nadu, India  
Nov 2019 - Dec 2019

### SALCOMP PLC

*Electrical Intern*

- Studied the Manufacturing Process of Mobile Chargers
- Studied the Testing Parameters of Mobile Chargers

Sriperumbudur, Tamil Nadu, India  
Jun 2019 - Jun 2019

## STUDENT CLUB

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### SRMIST-ENFUSE

*Vice President and Technical Domain Head*

*Technical Core Member*

- Worked with Energy and Fuel Users Association of India
- Guided Association Members for their Technical Interests and Research Papers

Chennai, Tamil Nadu, India  
Mar 2020 - May 2021  
Aug 2018 - Mar 2020

## SKILLS

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- Technical: MATLAB , PSCAD , PVSol , PVSyst , PSpice
- Programming Languages: Basics of Python and C++

## CERTIFICATIONS

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- Renewable Power and Electricity Systems , University of Colorado Boulder
- Electric Utilities Fundamentals and Future , University of Colorado System
- Electric Vehicles and Mobility , Ecole des Ponts ParisTech
- The Sustainable Development Goals – A global, transdisciplinary vision for the future , University of Copenhagen
- Electric Industry Operations and Markets , Duke University
- Introduction to solar cells , Technical University of Denmark (DTU)
- Wind Energy , Technical University of Denmark (DTU)
- Renewable Energy and Green Building Entrepreneurship , Duke University
- ET3034x: Solar Energy , Delft University of Technology
- Specialization on Solar Energy for Engineers, Architects and Code Inspectors , University at Buffalo
- Specialization on Energy Production, Distribution Safety , University at Buffalo

## LEADERSHIP AND HONORS

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- Awarded **Merit Scholarship for Complete Undergraduate Studies**
- Organized various Technical events , Industrial Visits and International Workshop in Collaboration with Waterloo University, Canada as **Vice President** of **200**-membered Association SRMIST-ENFUSE attended by over **600** students & Participants
- First Place in ENFUSE National Technical Quiz 2019 & 2020
- **Runner Up** Kaizen Robotics Program Competition , **IIT Madras Research Park**
- **Reviewer**
- e-Transportation
- Environmental Research Letters

June 2017 - May 2021  
Aug 2018 - Dec 2020