

M. Asim Amin

Mobile: (+39) 389 7657633, Email asim.amin@edu.unige.it
Personal Website: <https://sites.google.com/view/masimamin/home>

Education

University of Genova, Italy <ul style="list-style-type: none">DITEN, Electrical EngineeringScholarship: Marie Skłodowska-Curie Funded Position (CLOE)	<u>Ph.D. in Engineering</u>	May.2023-Present Genoa, Italy
Xi'an Jiaotong University <ul style="list-style-type: none">Grades: 86.21%, School of Electrical EngineeringScholarship: Chinese Government Scholarship (Full Scholarship)	<u>Masters in Engineering</u>	Sep.2015-July.2017 Xi'an, CN
The Islamia University of Bahawalpur <ul style="list-style-type: none">CGPA: 3.45/4.00, Electrical (Power) Engineering, PEC: ELECT/48365	<u>Bachelor in Engineering</u>	Oct.2010-Dec.2014 Bahawalpur, PK
The Noor College of Management & Sciences <ul style="list-style-type: none">Grades: 82%, Basic engineering course with distinction (Top 3%)	<u>Pre-Engineering</u>	Aug.2010 LQP, PK
Govt. Colony High School <ul style="list-style-type: none">Grades: 80% Basic Science Course with distinction (Top 5%)	<u>Matriculation</u>	Sep. 2008 LQP, PK

Publications

- M. Asim Amin *et al.*, "Renewable Energy Maximization for Pelagic Islands Network of Microgrids Through Battery Swapping Using Deep Reinforcement Learning," in IEEE Access, vol. 11, pp. 86196-86213, 2023.
- M. Asim Amin*, A. Suleman, *et al.*, "Profit Maximization by Integrating Demand Response in Multiple VPPs Optimal Scheduling" Dec, 2022. (Accepted and approved for publication in ICEEST Conference)
- A. Suleman, M. Asim Amin*, *et al.*, "Smart Scheduling of EVs Through Intelligent Home Energy Management Using Deep Reinforcement Learning", Published in ICET conference, Dec, 2022. (Industry based project)
- X. Wei, M. Asim Amin, *et al.*, "Two-Stage Cooperative Intelligent Home Energy Management System for Optimal Scheduling," in IEEE Transactions on Industry Applications, DOI: 10.1109/TIA.2022.3172669. (Equal Contribution)

Google Scholar: <https://scholar.google.fr/citations?user=qg7dHikAAAAJ&hl=en>

Summer Schools

Machine Learning Genoa Center <ul style="list-style-type: none">Deep Learning and Computer Vision	<u>University of Genova</u>	5/06/2023 - 9/06/2023 Genoa, Italy
Machine Learning Genoa Center <ul style="list-style-type: none">Modern Machine Learning	<u>University of Genova</u>	19/06/2023 - 23/06/2023 Genoa, Italy
Summer School Energy 2023 <ul style="list-style-type: none">Financing, participation, and environmental protection in community renewable energy	<u>Leuphana Universität Lüneburg</u>	28/08/2023 - 01/09/2023 Lüneburg, Germany

Work Experience

Tsinghua University, China <ul style="list-style-type: none">Research Focus: AI/IoT based Application in Power System & Microgrids, Smart Building and Communities.	<u>Visiting Researcher</u>	Sep.2020-Jan.2023 Shenzhen, CN
Growatt New Energy Technology <ul style="list-style-type: none">Making companies solutions, presentations, and instruction manuals (Solar Inverters & Batteries).Provide overseas technical support to customersProduct and Services Range: Solar Inverters and Batteries for Residential, Commercial, and Utility and Storage System.	<u>Product Manager</u>	Oct.2019-Apr.2020 Shenzhen, CN
Southern University of Science and Technology <ul style="list-style-type: none">Research Focus: Artificial Intelligence Application in Power System & Microgrids.	<u>Visiting Research Scholar</u>	Nov.2019-Aug.2020 Shenzhen, CN
CYG SUNRI CO., Ltd. (Shenzhen NARI) <ul style="list-style-type: none">Making companies solutions, presentations, and instruction manuals (Electrical Power Grid).Biding for Overseas and Chinese projects.Protection & BCU and Panel AUTOCAD drawings.Introduce companies' solutions to customers (Protection & SAS).	<u>Solution Manager</u>	Sep.2017-Sep.2019 Shenzhen, CN

- **Product and Services Range:** Protection & Automation, Hydro, Micro-grid, Wind, Solar, EV, Transmission, Distribution, Primary Equipment.

Renewable Stars (PVT) Limited *Assistant Technical Manager* Sep.2014-Aug.2015
 • Responsible for project support and solution provider for PV, Wind, Hybrid Solar Power. **ISB, PK**

GENCO-II Thermal Power Plant *Trainee Engineer* July.2013-Aug.2013
 • 132/220 KV switchyards, protection of grid system units. **GUDDU, PK**
 • Operation and control of 220 KV and 132 KV grid station units.

AGRITECH FERTILIZER LTD *Trainee Engineer* Aug.2012-Sep.2012
 • Natural gas combined cycle power plant training (2~11.5 MW). **ISKANDARABAD, PK**
 • Operation and control of plant and electricity feeding to an ammonia power plant.

Thesis

- **Masters in Engineering:** Control Design of Multi-terminal HVDC grid and its Fault Analysis under DC side Contingences.
- **Bachelor in Engineering:** Smart Monitoring, Analysis & Control of Lab-based Micro-Grid Through Hardware-in-the-Loop (HIL) Simulation using Simulink.

Field of Interes

- Micro-Grid Voltage Control and Power Sharing
- AI Application for Microgrids and EV penetration in the distribution system
- Active Distribution Network
- Distributed Optimization and Optimal Control
- Integrated Energy Management System

Honor & Certificates

- Training Program for Silk Road Engineering and Technology Development on the theory and innovative application of Big Data.
- IEEE Webinar Course Completion Certificates in Power System and Smart Grid.
- International Conference on Condition Monitoring and Diagnosis 2016 (25-28 September | Xi'an China).
- ICT R&D Fund National Grassroots Research Initiative (NGIRI) grant of PKR 100,000 for Bachelor Final Year Project.
- Certificate of Appreciation for Best Final Year Project in Power Engineering category at sixth IEEE AEPEX, UCET, IUB.

Reviewer

- CSEE Journal of Power and Energy Systems.
- IEEE Access
- IEEE Industry Application Society
- Elsevier Computers & Electrical Engineering Journal
- Elsevier Energy Report Journal
- Renewable and Sustainable Energy Reviews

Skills

Language: Basic in Mandarin, Fluent in written and spoken English, Native in Urdu.

Skills: Proficient in Microsoft Office, MATLAB, PYTHON, PSCAD, ATP Draw, ETAP, Auto CAD, OpenDSS.