



Sahas Bikram Shah

Project Manager | Senior Scientist | PhD

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[Sahas Bikram Shah | LinkedIn](#)

Result oriented technologist with extensive experience in electromechanics, engineering and powertrain simulations. Expert in leading cross-functional teams and product development. A fast and eager learner, service oriented, and can adapt to changing requirements quickly to meet business goals.

WORK EXPERIENCE

Project Manager, Senior Scientist

Technical Research Centre of Finland, VTT

01/2022 – Present

Espoo, Finland

Tasks

- Lead customer and national projects related to decarbonization of transport and mobility sector, total valued over 1.3 million euros and delivering results on time and within budget.
- Build cross functional teams and lead more than 10 in house experts ensuring effective execution of the project.
- Facilitated seamless project meetings and stakeholder communication, ensuring efficient documentation and exceeding client expectations.
- Review reports, document, monitor project and supervise junior engineers.
- Lead Hardware in loop control development and powertrain simulations for non-road mobile machines, implementing simulation models in Speedgoat and cRIO.
- Technology assessment of use of alternate energy carriers in agriculture, mining and port machineries and long duration storage batteries in microgrids.
- Lead the development of cloud-based tool for evaluating different energy carries in different powertrain options.

Research and Development Engineer

ABB Oy

03/2018 – 01/2022

Helsinki, Finland

Tasks

- Knowledge Organization Owner (synchronous machine), implement triz and lean methods in new product development and R&D projects.
- Ensure IEC 60034, IEEE 112, NEMA MG-1, quality standards and tested grid code compliance of electrical motors and generators.
- Evaluated and approved subcontractor proposals and equipment.
- Expert in electromagnetic modelling and finite element simulation of electrical machines
- Expert in grid code, synchronous generator, excitation system and power system simulations.
- Improved performance of motors and generators by optimizing design and proper selection of materials.
- FAT of electrical power system supporting customers to meet end customer requirements.

SKILLS

Microsoft office

Matlab

JIRA

Scrum & Kanban

Simulink and Simscape

Ansys & Comsol

Python

SOFT SKILLS

Public speaking

Leadership

Problem solving

Conflict resolution

delegation

Planning

EDUCATION

Doctor of Science (Technology)

Electromechanics Lab, Aalto University, Finland

06/2013 – 01/2018

Passed with distinction

Masters in Electrical Engineering

Aalto University, Finland

09/2011 – 04/2013

Passed with distinction

CERTIFICATES

IPMA Level C

Awarded by International Project Management Association

Lean Six Sigma Green Belt

Awarded by IACET. ABB

ACHIEVEMENTS

Employee recognition award

- Recognition award for delivering the project on time and within budget and exceeding customer expectation. (2023)

Business generation

- Discovered new clients and stakeholders, formed and led a consortium of six companies and three research institutes to receive a grant of over 1 million euros. (2022)

- Supported sales team to secure business worth over 200 million euros through constant negotiation and presenting technical solutions. (2021)

Cost saving

- Reduced cost of the product by 10% by optimizing design and reducing material use. (2020)