Exponent®
Engineering & Scientific Consulting

Jasper Pakshong

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Professional Profile

Mr. Pakshong has experience working on construction and utilities projects as a project manager, assistant project manager, and design engineer. He has worked in many stages of electric generation projects, primarily pertaining to solar and battery storage development and interconnection.

In his managerial roles, Mr. Pakshong was responsible for critical path scheduling, budget forecasting and analysis, change order management, and interconnection agreement support. He also facilitated procurement efforts and coordinated subcontractors. As a design engineer, he designed solar systems and energy storage systems, and conducted solar generation forecasts and analysis.

Mr. Pakshong earned his Master's degree in Civil and Environmental Engineering from University of California, Berkeley with a focus in power systems and data analytics. His thesis included a value analysis case study of a utility equipment upgrade timeline as well as power systems modelling of transmission networks and N-k security analysis. In addition to his technical discipline, he took courses related to energy markets and energy policy.

Prior to joining exponent, Mr. Pakshong served as a project manager on a Department of Energy project with multiple utility partners. He managed a team of researchers from various institutions and companies working on phasor-based control for scalable solar photovoltaic integration. He led the team in building a supervisory controller, running power flow simulations, and conducting distributed energy resources testing.

Academic Credentials & Professional Honors

M.Sc., Civil and Environmental Engineering, University of California, Berkeley, 2020

B.S., Physics, University of St. Andrews, Scotland, 2016

Licenses and Certifications

Engineering and Business for Sustainability (EBS) Certificate from University of California, Berkeley

OSHA #510 Occupational Safety And Health Standards For The Construction Industry

Prior Experience

Project Manager/Graduate Student Researcher, University of California, Berkeley, 2020

Assistant Project Manager, Flux Energy Systems, 2018

Program Associate, MedTech Innovator, 2017

Publications

Maxime Baudette, Jaimie Swartz, Keith Moffat, Jasper Pakshong, Leo Chu, Christoph Gehbauer, Alexandra von Meier, Hardware-In-the-Loop Benchmarking Setup for Phasor Based Control Validation□□This work was supported by U.S. Dept. of Energy, Award DE-EE0008008., IFAC-PapersOnLine, Volume 54, Issue 20, 2021, Pages 747-752, ISSN 2405-8963, https://doi.org/10.1016/j.ifacol.2021.11.261.

G. Fierro, K. Moffat, J. Pakshong and A. von Meier, "An Extensible Software and Communication Platform for Distributed Energy Resource Management," 2020 IEEE International Conference on Communications, Control, and Computing Technologies for Smart Grids (SmartGridComm), Tempe, AZ, USA, 2020, pp. 1-6.

K. Moffat, J. Pakshong, L. Chu, G. Fierro, J. Swartz, M. Baudette, and A. von Meier, "Phasor Based Control with the Distributed, Extensible Grid Control Platform," 2021 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT), Washington, DC, USA, 2021, pp. 1-5.

Project Experience

Managed a team of academics and industry partners researching a novel control method for distributed power grid assets. Coordinated teams, led meetings, and drove schedule and project milestones. Conducted value analyses, market transformation plan research, power flow simulations, contingency analysis, and data management.

Managed a multi-megawatt (MW) portfolio of residential and commercial solar projects in Texas. Interfaced with client, submitted interconnection agreements, maintained inventories, managed procurement, scheduled site-visits, and conducted quality control.

Assisted project manager in multi-MW portfolio of commercial and industrial solar and storage projects in California. Developed and maintained schedules, conducted risk assessment, tracked budgets, managed change orders, coordinated subcontractors, aided in interconnection processes, and reviewed drawings. Provided monthly schedule, resource, and cost forecasts.

Designed electrical systems for renewable and energy storage projects. Experience includes hundreds of MWs of preliminary design work and solar generation forecasting for solar projects and storage projects. Developed engineering tools, design templates, and quality control methods.