JACQUELINE(JACKIE) KROHN

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EDUCATION

The University of Notre Dame
Master of Business Analytics — May 2023
GPA: 3.88
Fellowship

The University of Texas at Austin
Bachelor of Mechanical Engineering — May 2020
Minor: Business
McCombs Summer Institute – 9 week intensive — Summer 2019
Halliburton Scholar

PROFESSIONAL EXPERIENCE

Bai Engineers, LLC — Austin, TX
Project Engineer — August 2020 – August 2021
- Designed and optimized water treatment, collection, and distribution systems, using tools like geographical information systems, computer-aided design, and programmable logic controllers, and delivered models, technical drawings, and management systems.
- Managed, facilitated, and prioritized project tasks, meetings, costs, and data analysis using Zoom and Microsoft Teams.
- Collaborated with cross-functional teams to create technical specifications and client-facing marketing materials for a new line of water filtration products.
- Created and implemented a dynamic multimedia marketing plan and streamlined RFP/RFQ process to connect and inform customers on company news and services, leading to an increase in contracted business by 50% for 2021.

Research and Development Engineer — May 2020 – August 2020
- Developed prototype electrocoagulation unit for filtering water that provides over 80% reduction in disinfection operation costs.
- Authored and delivered a comprehensive training course on the fundamentals and maintenance of water treatment processes for operators.

HAI Technologies — Houston, TX
Mechanical Engineering Intern — May 2018 – August 2018
- Developed a test plan and failure analysis for a subsea chemical injection system and compiled information for the interfaces of hydrostatic, long-term testing and coordinated logistics of the project with the research campus.

ACADEMIC RESEARCH AND PROJECTS

Business Analytics, *Children's Mercy Hospital Patient Experience* — Spring 2022
- Created detailed strategy based on business performance and customer feedback that identified areas to improve, specifically locations, specialties, and processes, resulting in an increase of positive experiences by over 15%.

Deep Learning, *Detecting Pneumonia from X-ray Images* — Spring 2022
- Developed a Convolutional Neural Network using Python with an AUC of 0.99 and cost benefit analysis to identify pediatric pneumonia in x-ray images and assist diagnosis in developing countries where pneumonia is the leading cause of death in children.

Machine Learning, *Airline Customer Satisfaction Prediction* — Fall 2022
- Analyzed airline customer satisfaction survey data using statistical tools and models in R to group customers by service usage and predict satisfaction with the purpose of providing recommendations for customer-centric improvements.

Design of Transmission Line Monitoring System, *The Center for Electromechanics* — Spring 2020
- Designed and simulated testing of a casing for transmission line sensing which identifies disturbances and prevents potential disasters.
- Presented simulation results and design on weatherproof, installation, and wire diagram in a technical report to the Center for Electromechanics, National Instruments, and the Department of Energy.

LEADERSHIP EXPERIENCE AND ACTIVITIES

MSBA Association (MSBAA) – *Vice President, Mendoza College of Business* — Fall 2022 – Spring 2023
- Created budgets and financial records of the Association's funds to promote community among the members of the MSBA program and to enhance the academic, professional, and social experience of the graduate program.

EXPO Committee – *Senior Reception Committee, Cockrell School of Engineering* — Spring 2019 – Fall 2019
- Organized an evening banquet for over 500 senior engineering students to network with representatives from over 40 companies.
- Managed event finances and contacted venders for venue, furniture, and catering while 30% under allotted budget for the event.

ADDITIONAL INFORMATION

Computer Skills: R, Python, SQL, Tableau, AutoCAD, ArcGIS, SolidWorks, MATLAB, LabVIEW, NI Multisim
Certifications: AWS Cloud Practitioner Essentials, Machine Shop, Wood Shop, SSI Open Water SCUBA Certification
Community Service: Westview School, Habitat for Humanity, Magnificat Houses
Interests: Basketball, Tennis, Automation, Vehicle Design, Space Exploration, Skiing, Scuba Diving, Cooking and Baking