JACQUELINE(JACKIE) KROHN

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EDUCATION

The University of Notre Dame	Master of Business Analytics GPA: 3.88	May 2023
The University of Texas at Austin	Bachelor of Mechanical Engineering Minor: Business	May 2020
	McCombs Summer Institute – 9 week intensive	Summer 2019

PROFESSIONAL EXPERIENCE

Bai Engineers, LLC – *Project Engineer;* Austin, TX | May 2020 – August 2021
- Designed and optimized water treatment, collection, and distribution systems using geographical information systems, computer-aided design, and programmable logic controllers.
- Managed, facilitated, and prioritized project tasks, meetings, costs, and data analysis using Zoom and Microsoft Teams.
- Created and implemented a dynamic multimedia marketing plan and streamlined RFQ process to connect and inform customers on company news and services, leading to an increase in contracted business by 50% for 2021.

HAI Technologies – *Mechanical Engineering Intern;* Houston, TX | 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.
- Coordinated logistics with the project group and contractor including meetings, invoices, and schedules.

ACADEMIC RESEARCH AND PROJECTS

Deep Learning, *Detecting Pneumonia from X-ray Images* | Spring 2022
- Developed a Convolutional Neural Network 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.

ME336K: Design, *The Center for Electromechanics* | Spring 2020
- Designed and prototyped a casing for transmission line sensing which identifies disturbances and prevents potential disaster.
- Presented 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.

ME336J: Food 3D Printer | Fall 2019
- Conducted customer feasibility and interface analysis regarding market interest for 3D printing in relation to food services.
- Successfully designed, constructed, and implemented a food 3D printer using SolidWorks and Arduino microprocessor.

ME 177K: FIRE Program, *Lab Scale Water Cannon* | Fall 2016
- Produced a design, research, and analysis for a prototype of a Lab Scale Water Cannon in collaboration with Dr. Ofodike Ezekoye.
- Solved issues with construction and fluid dynamics to produce a testing system resulting in a more efficient extinguishing of fires.

Halliburton Scholar | Summer 2019

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 – 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.

Kappa Delta, *Sigma Epsilon Chapter* | Fall 2016 – Spring 2020
- Fundraised for the annual Shamrock 5K to benefit Prevent Child Abuse America raising over $20K and held confidence building workshops with Girl Scouts of America.

Women in Engineering – *Active Member* | Fall 2016 – Spring 2020

American Society of Mechanical Engineers – *Active Member* | Fall 2016 – Spring 2020

ADDITIONAL INFORMATION

Computer Skills: AutoCAD, ArcGIS, SolidWorks, MATLAB, LabVIEW, NI Multisim, R, Python, SQL, Tableau
Certifications: 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