

Daniel H. Searcy

College Station, TX | (208)-243-0703 | daniel.searcy@tamu.edu | www.linkedin.com/in/danielhsearcy

EDUCATION

Texas A&M University, Mays Business School | College of Engineering College Station, TX
Master of Business Administration, Master of Engineering in Biomedical Engineering December 2024

Brigham Young University - Idaho Rexburg, ID
Bachelor of Science in Mechanical Engineering July 2021
GPA: 4.00/4.00 | Honors: Summa Cum Laude

EXPERIENCE

Aggies in Business (AiB) College Station, TX
Consultant November 2022 – Present

- Provide consulting services for startups and entrepreneurs, most recently completing a two-day marketing analysis for a service platform startup which included a customized cashflow projection tool and market segmentations

CardioQuip College Station, TX
Associate Engineer December 2021 – July 2022

- Developed 24+ verification protocols for a family of medical devices to ensure conformance to design intentions
- Composed two sets of process validation (installation, operational, and performance qualifications) which led to approved contamination prevention procedures to be performed by CardioQuip and its contract manufacturer
- Documented and implemented four engineering design changes to post-market devices within a five-month constraint as part of an FDA issued warning letter, allowing for a new FDA 510K submission

Engineering Intern II August 2021 – December 2021

- Compiled an arrangement of custom and off-the-shelf hardware configurations for pre-market devices resulting in a portfolio of 12+ 3D models and quote comparisons for each configuration
- Researched and modeled two department-approved concepts for a patient simulator to test CardioQuip devices against a representative thermal load for evaluating device performance, a two-month project resulting in two write-ups detailing the production of and science behind each simulator option in preparation for initial prototypes

Dome Technology Idaho Falls, ID
Engineering Intern April 2020 – September 2020

- Coded and formatted calc-sheets facilitating quick analysis (max 60 seconds) of foundation settling and beam integrity in bulk material storage dome structures
- Developed skills in engineering software RISA 3D, AutoCAD, and Inventor and utilized those skills in structure analyses to provide material quotes based on simulated beam sizes and configurations
- Sourced labor/materials from around the world through cold calls, emails, and LinkedIn networking for the development of a specialized aerial lift, a custom project which required detailed negotiations with 8+ OEMs

LEADERSHIP

Senior Capstone Design Project | Idaho National Laboratory Rexburg, ID
Project Leader April 2021 – July 2021

- Led a team of five other engineers to design and manufacture an experiment capsule to simulate heat transfer cases and effects on a blowdown valve actuating system for use in nuclear testing

Biomedical Engineering Society at BYU-Idaho Rexburg, ID
President/Initiator September 2020 – February 2021

- Initiated the society and gained university funding worth \$1,000/semester for research and development efforts in mechatronics, artificial muscles, pneumatics, and cable systems to design a prosthetic arm
- Coordinated seminars with two research universities to introduce the society to Graduate program opportunities

SKILLS, AWARDS, & INTERESTS

Technical Skills: Crystal Ball (intro), JMP (intro), MS Excel, CAD (SolidWorks), Computation (Visual Basic, Python)

Certifications & Training: Certified SolidWorks Associate, FE Exam

Awards: 1st/2nd Place in two MBA Case Competitions, Tau Beta Pi Eng. Honor Society, Leadership Scholarship

Interests: Mountain Trail Running, 3D Printing, Paddleboarding, Drone Cinematography