

Brad Feddersen

Seeking an impactful role in the space industry

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Seattle-Based, Open to Travel

EDUCATION

B.S. Electrical Engineering

Washington State University

GPA 3.8

Relevant Courses: Microprocessor Systems, Microelectronics, Data Structures (C++), Circuits, Electromagnetic Fields and Waves, Signals and Systems, Power Systems, 3D modeling (SolidWorks)

PROJECTS

Rocket Team - Lead Electrical Engineer — Avionics

- Developed effective model rocket flight computer using Arduino
- Configured altimeter, gyroscope, and accelerometer over I2C
- Coded for and soldered in RGB indicator lights, On/Off switch, sensor board, and safe eject button for SD card reader
- Expanding capabilities to include: GPS sensor data, LORA RF
- Built COTS EggTimer Quantum for control of pyrotechnic deployments

AM Radio — RLC Circuit Design

- Simulated oscillator and butterworth bandpass filter in LTSPICE design
- Implemented functioning AM radio built to design specs on breadboard
- Utilized digital multimeter (DMM), oscilloscope, and function generator

Electronic Climbing Wall — 0-40° Adjustments

- Built safe and secure 16ft climbing wall with zero floor space loss
- Made remote control system to adjust angle off vertical from 0-40°

LEADERSHIP / WORK EXPERIENCE

WSU Engineering Club, Everett — Vice President

AUGUST 2021 - PRESENT

- Spearheaded crowdfunding campaign and raised 212% of initial goal
- Created a successful series of "Soldering Party" events to give students access to hands-on project experience and aid in club recruitment
- Managed Marketing/PR intern and established strategic framework for increasing club recruitment and engagement
- Revised purchase order request system to expedite material purchasing, reducing processing time by 50%

PNW House Painting, Seattle — Owner/CEO

(FOUNDED COMPANY) MARCH 2016 - PRESENT

- Built a thriving business from the ground up by creating and executing highly efficient business, marketing, and production strategies
- Coordinated more than 40 projects/year with \$500,000 annual volume
- Negotiated highly competitive pricing with vendors, reducing material costs by 28%
- Managed a team of 10+ employees including skills laborers, accountants, marketing professionals, and subcontractors
- Researched technical product specifications for unique applications

TOP ACCOMPLISHMENTS

- Built \$500k/year company, created efficient systems, and managed 10 employees
- Directed crowdfunding campaign for Engineering Club: Raised 212% of goal with 34 individual donors
- Configured, built, and coded Arduino rocket flight computer 24 hours prior to launch

CHARACTER TRAITS

- Innovative & creative thinker
- Tenacious, persistent, and dedicated hard worker
- Sense of urgency
- High integrity
- Efficient & ROI focused
- Highly adaptable and flexible
- Results driven
- Systems view and approach
- Confident communicator
- Fast learner

AWARDS / HONORS

- 1st Place - Techstars Startup Weekend, Space Edition, Seattle for "Space Paint" November 2019
- Live Your Dream Grant - from The American Alpine Club to climb Ecuador's "El Altar" January 2019

SOFTWARE / TECHNOLOGY

Fast and efficient learner of new technology tools and experience with many more.

Programming Languages: C, C++, ARM Assembly, and MATLAB

Test & Measurement: DMM, Oscilloscope, Function Generator

Design: LTSPICE, SolidWorks

Office / Productivity: MS Office Suite, Google Drive and Related Products.

LANGUAGES

Native: English

Professional: Spanish

Learning: French