

REX CALABRESE

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EDUCATION

University of Vermont, Burlington, VT

Bachelors of Science in Mechanical Engineering (BSME), May 2020

Rex.Calabrese@Gmail.com

CERTIFICATIONS

- Passed the NCEES FE Exam, May 2020
- STK MASTER Certification issued by AGI, May 2019
- STK Certification issued by AGI, November 2018

SKILLS

Technical: Python, MATLAB, C++, SolidWorks, Ansys Fluent, Inventor, AutoCad, Wordpress, Adobe Suite

Engineering: Analytical Methods, Computational Fluid Dynamics (CFD), Finite Element Analysis (FEA)

Hands-on: Prototyping, Geometric Dimensioning & Tolerancing, Machining, Hardware Testing

EXPERIENCE

Vermont Space Grant Consortium, Burlington, VT

Project Lead, Test Engineer

2018-2019

- Developed a small satellite testbed from the ground up (3 DOF), with the purpose to test propulsion systems on the order of Micro Newtons of thrust
- Designed a modular framework intended for continued use
- Managed project milestones in order to maximize system resolution while keeping to the budget of \$10,000

Rex Calabrese Designs, Burlington, VT

Website Designer and Developer

2012-2014

- Fostered strong relationships with clients, resulting in continued service contracts
- Created a comprehensive design process for website development
- Constructed Wordpress sites from scratch
- Structured website backends in order for the client to easily access and update

Good Earth Landscaping, Cavendish, VT

Landscape Design Assistant

2008-2012

- Assisted with site planning
- Operated and repaired heavy machinery
- Managed company IT systems
- Created and maintained the company's website

PERSONAL STATEMENT

I am an engaged, initiative-taker offering a growing set of skills based on a foundation of idea synthesis, spatial awareness, engineering methods, analytical methods, numerical methods, and R&D. I embody a “by-any-means” approach and am dedicated to getting the job done right. I have the capability to comprehend and follow complex sets of instructions using exactness as a science, at the same time having the mental flexibility to thoughtfully generate creative and ‘purposefully disruptive’ ideas—all forged in the basis of engineering.