JEREMY OUELLETTE

1 Gifford Rd

White River Junction, VT 05001

(802) 295-8630 x2223

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Summary of Qualifications

Experienced technology educator with knowledge of regional employment and post-secondary education landscape and the vision to increase opportunities for technology and computer science education in the Upper Valley.

- 8+ years teaching college-level computer programming and technology courses to a diverse group of students including early college attendees.
- Department chair familiar with articulation agreements, outcomes assessment and curriculum management to maintain currency with industry needs.
- Demonstrated commitment to increasing the number of women and members of underrepresented groups in technology careers.

Teaching Experience

Career and Technical Education Teacher 2022 - 2023

Hartford Area Career and Technology Center White River Junction, VT

- Design and develop curricula in Information Technology and Software Engineering to prepare students for immediate workplace success or future education and training.
- Align curriculum with industry needs and provide credentialing opportunities for students.
- Coordinate and instruct dual enrollment classes for students to earn postsecondary credit at the center.
- Employ universal design practices to support diverse learners.
- Coordinate with parents, sending school stakeholders, and center support staff to implement student support plan requirements.

Associate Professor, Assistant Professor, Adjunct Professor 2012 - 2022

Vermont Technical College Randolph Center, VT

- Taught courses across Computer Engineering, Information Technology, and Software Engineering programs.
- Designed, implemented, and revised curriculum in a variety of courses including introductory programming, artificial intelligence, and computer security.
- Employed best practices in use of Canvas and Moodle learning management systems to accurately track and communicate student progress and grades.
- Implemented flexible classroom modalities to support in-person and remote students simultaneously, including live broadcast of lectures and lecture capture.
- Advised 20+ students annually in planning for academic and career opportunities including job searching and interviewing skills.
- Conducted advisory board meetings to ensure program curricula are current with industry needs.
- Managed curriculum changes and assessments to comply with institutional and accrediting body policies.
- Planned and coordinated STEM outreach activities, with particular emphasis towards improving gender equity in technology.

Visiting Lecturer 2016 - 2020

Dartmouth College Hanover, NH

- Taught summer sections of introductory physics course for pre-medical students, adapting pedagogical approach for large 100+ classroom environments.
- Offered numerous opportunities for one-on-one supplemental instruction.
- Modified course for remote delivery via Zoom for 2020 summer term, with extensive changes to course Canvas page to support both synchronous and asynchronous students.

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Research and Industry Experience

Visiting Research Scientist   2013 - 2016
Dartmouth College   Hanover, NH
- Researched solar wind-geomagnetic interactions using computational models.
- Designed and authored scripts to accelerate execution of runs on remote systems.
- Implemented and tested new physics models in simulation code.

Visiting Young Scholar   2011 - 2012
Thayer School of Engineering at Dartmouth   Hanover, NH
- Investigated the influence of ionospheric plasma on magnetospheric activity.
- Assisted M.S. and Ph. D. students with data analysis and visualization tools.
- Co-designed and co-taught a new course in space systems engineering.

Senior Systems Engineer   2009 - 2011
Raytheon Integrated Defense Systems   Woburn, MA
- Analyzed algorithm design and performance for military radar software.
- Received training in systems engineering, radar fundamentals, and signal processing.

Selected Volunteer Activities

Instructor   2015 – 2019
Rosie's Girls STEM Leadership Camp   Randolph, VT
- Led workshop on web design at STEM day camp for girls entering ninth and tenth grades.
- Created website framework students used to document their camp experience.
- Delivered introductory lesson on HTML & CSS and supported campers implementing their sites.

Workshop Instructor   2015 – 2019
Women Can Do Conference   Randolph, VT
- Designed cybersecurity exercise for statewide STEM conference for young women.
- Configured local DHCP server to ensure localization of network traffic.
- Automated creation and deployment of virtual machines to support exercise.

Education

Doctor of Philosophy, Physics & Astronomy   2009
Dartmouth College   Hanover, NH
- Thesis topic: computational space plasma physics

Bachelor of Science, Physics   2004
St. Lawrence University   Canton, NY
- Second major: Mathematics

Certifications

CompTIA A+   2024 - Present

VT Educator's License   2023 - Present
CTE Endorsement