

# JEREMY OUELLETTE

HACTC  
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[ouellettej.github.io](https://ouellettej.github.io)

## *Summary of Qualifications*

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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*

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### **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*

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<b>Visiting Research Scientist</b> Dartmouth College	2013 - 2016 Hanover, NH
<ul style="list-style-type: none"><li>• Researched solar wind-geomagnetic interactions using computational models.</li><li>• Designed and authored scripts to accelerate execution of runs on remote systems.</li><li>• Implemented and tested new physics models in simulation code.</li></ul>	
<b>Visiting Young Scholar</b> Thayer School of Engineering at Dartmouth	2011 - 2012 Hanover, NH
<ul style="list-style-type: none"><li>• Investigated the influence of ionospheric plasma on magnetospheric activity.</li><li>• Assisted M.S. and Ph. D. students with data analysis and visualization tools.</li><li>• Co-designed and co-taught a new course in space systems engineering.</li></ul>	
<b>Senior Systems Engineer</b> Raytheon Integrated Defense Systems	2009 - 2011 Woburn, MA
<ul style="list-style-type: none"><li>• Analyzed algorithm design and performance for military radar software.</li><li>• Received training in systems engineering, radar fundamentals, and signal processing.</li></ul>	

## *Selected Volunteer Activities*

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<b>Instructor</b> Rosie's Girls STEM Leadership Camp	2015 – 2019 Randolph, VT
<ul style="list-style-type: none"><li>• Led workshop on web design at STEM day camp for girls entering ninth and tenth grades.</li><li>• Created website framework students used to document their camp experience.</li><li>• Delivered introductory lesson on HTML &amp; CSS and supported campers implementing their sites.</li></ul>	
<b>Workshop Instructor</b> Women Can Do Conference	2015 – 2019 Randolph, VT
<ul style="list-style-type: none"><li>• Designed cybersecurity exercise for statewide STEM conference for young women.</li><li>• Configured local DHCP server to ensure localization of network traffic.</li><li>• Automated creation and deployment of virtual machines to support exercise.</li></ul>	

## *Education*

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<b>Doctor of Philosophy, Physics &amp; Astronomy</b> Dartmouth College	2009 Hanover, NH
<ul style="list-style-type: none"><li>• Thesis topic: computational space plasma physics</li></ul>	
<b>Bachelor of Science, Physics</b> St. Lawrence University	2004 Canton, NY
<ul style="list-style-type: none"><li>• Second major: Mathematics</li></ul>	

## *Certifications*

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<b>CompTIA A+</b>	2024 - Present
<b>VT Educator's License</b> CTE Endorsement	2023 - Present

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