

Taylor E. R. Hubbard

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EXPERIENCE

Technical Writer

July 2018 - January 2023

Siemens EDA / Mentor Graphics

- Documentation owner responsible for Austemper Functional Safety from 2021 to 2023 and Questa SIM from 2019-2021. Responsible for content creation, final build processes and project management.
- Recognized as a leader for creating collaboration and team building activities to facilitate remote work. Mentored junior writers and provided troubleshooting for the greater documentation team.
- Supported multiple complex products concurrently, including Catapult Synthesis, Questa SIM, Catapult Coverage, and the Austemper Functional Safety Tool Suite in an Agile environment.
- Contributed code examples and product suggestions to Catapult HLS and Austemper.

Doctoral Research Fellow

2016 - 2018

Boston University Computational Electronics Group

Boston, Massachusetts

- Performed numerical FEM and FDTD semiconductor optoelectronic device simulations for infrared detectors.
- Device fabrication and characterization (cleanroom photolithography, scanning electron microscopy).
- Modeled Colloidal Quantum Dot Photodetectors for DARPA WIRED project to capture trends in electrical and optical behavior of devices to validate and guide experimental effort in collaboration with external researchers.

Researcher/Presenter

Summer 2015

Collaboration with the European Energy Centre

Boston, Massachusetts

- Joint presenter for educational webinar on the science and economics of solar photovoltaics.
- Conducted research to facilitate webinar and support future course materials.
- Received speaking and publication invitations.

EDUCATION

Boston University College of Engineering, Boston, Massachusetts

PhD, Electrical and Computer Engineering (2016 - 2018; passed qualifying exam but did not complete), GPA 3.90/4.00

Master of Science, Materials Science and Engineering, May 2016

Electronic/Photonic Materials Concentration, GPA 3.78/4.00

Whitman College, Walla Walla, Washington

Bachelor of Arts, English Literature and Language, Japanese Minor May 2010

SKILLS

Python, Oxygen, DITA, C++, [Github](#), Linux, Perforce, Ruby, Jira, Confluence, FrameMaker 12, Microsoft Office.

PUBLICATIONS

Brian Appleton, **Taylor Hubbard**, Andreu Glasmann, and Enrico Bellotti, "Parametric numerical study of the modulation transfer function in small-pitch InGaAs/InP infrared arrays with refractive microlenses," Opt. Express 26, 5310-5326 (2018).

Andreu Glasmann, **Taylor Hubbard**, Enrico Bellotti, "Numerical modeling of a dark current suppression mechanism in IR detector arrays", Proc. SPIE 10177, Infrared Technology and Applications XLIII, 101770A (16 May 2017)

Hubbard, Taylor. Quantum Dot Solar Cells: a promising look toward the future. North American Clean Energy, March 2016.

AWARDS

William E. Spicer and Thomas A. Casselman Best Student Paper Award, presented at U.S. Workshop on the Physics and Chemistry of II-VI Materials for "Numerical Modeling of Three-Dimensional Microlenses for IR-Focal Plane Arrays"