

# Steven Tulevech

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## EDUCATION

**University of North Carolina at Chapel Hill**---- Chapel Hill, NC Graduation May 2019  
B.S. in **Environmental Science**, Energy Systems Track; Minor in Computer Science; Minor in Information Systems; GPA 3.76  
**Coursework:** Energy Modeling and Analytics, Energy Technologies, Advanced Programming (Java), Database Applications (SQL)  
**Honors:** Honors Carolina— Highly competitive academic and intellectual program admitting 10% of each incoming class  
College Fellows Scholar— UNC merit scholarship recognizing exceptional academic performance and leadership ability  
2012 Eagle Scout— Boy Scouts of America

## ENERGY / ENVIRONMENTAL RESEARCH EXPERIENCE

**Energy Researcher/Consultant | Joint Graduate School of Energy & Environment**---- Bangkok, Thailand Jan - July 2017

- Conducted a multi-scenario energy optimization study for a Fortune 500 “Change the World” client which successfully enabled a 162,000 square foot factory to achieve net-zero energy status and become the first certified industrial green building in Thailand
- Utilized life cycle assessment methodology to simulate changes in energy use from system modifications such as a 1-MW rooftop PV system, passive cooling louvers, material recycling, and low-energy alternatives to 300 unique material components
- Lead-authored six-author study (currently in-review) based on LCA results to demonstrate dramatic efficiency gains from unique architectural approach; established recommendations for sustainable construction & engineering in tropical emerging nations

**Independent Researcher | Ecosystem Engineering and Coastal Resiliency REU**----Morehead City, NC May - Aug 2016

- Discovered a statistically significant relationship between shoreline habitat structure type and fish schooling behavior/activity
- Employed methods including simulated ecosystem mesocosms, submerged GoPro cameras, and nighttime seining at four field sites to support a theory that “living shorelines” harbor better local fisheries while mitigating sea level rise and hurricane damage
- Sharpened skills in statistical analysis, field question testing, and working in research teams at UNC Institute for Marine Sciences

**Independent Researcher | Duke University Nicholas School of the Environment**---- Durham, NC Nov 2013 – Apr 2015

- Autonomously designed, defended, and carried out field and laboratory-based study assessing effects of ocean acidification on shell formation and death rates of a keystone species of crab native to eastern North Carolina estuaries
- Findings were selected for publication in the 2015 volume (vol. 3) of the Broad Street Scientific Journal, and served as parallel model for a similar study conducted at the UNC Institute for Marine Sciences in the same year

## ENERGY PROJECT MANAGEMENT EXPERIENCE

**Project Manager | UNC Renewable Energy Special Projects Committee**---- Chapel Hill, NC Aug 2015 - Present

- Scheduled meetings with administrators in multiple departments to successfully secure permits and funding for campus electric vehicle chargers and a highly visible \$250,000 rooftop PV installation on UNC’s main conference center
- Supervised interviews with four engineering consulting firms competing for a contract to implement LED retrofits in thirty-one UNC academic buildings; three building renovations have been finished with an additional ten set to follow
- Assembled a new collaborative partnership between energy and sustainability funding committees at seven UNC-system schools united by a mission expand private sector project sponsorship; Long-term plans include formation of a nonprofit organization

## INTERNATIONAL EXPERIENCE

**International Student | King Mongkut’s University of Technology Thonburi**---- Bangkok, Thailand Jan - July 2017

- Adapted to new environment, learned to speak Thai language, and quickly overcame cultural barriers to thrive in new context
- Grew independence and adaptability by travelling for six weeks through eight southeast Asian countries alone and in small groups
- Internalized newfound global perspective by building interpersonal relationships with students from all over the world

## COMMUNITY LEADERSHIP

**Co-Founder and Organizer | North Carolina Rural Sustainability Summit**---- Chapel Hill, NC Feb - Oct 2016

- Strategically developed a new summit designed to facilitate collaborative dialogue between diverging urban and rural interests
- Brought together diverse agricultural, energy, health and water industry stakeholders for productive dialogue on the environment

**Founder and Director | Run2Give Charity Road Race, an Eagle Scout Project**---- Beaufort, NC June - Sep 2012

- Marketed event door-to-door and secured over 50 sponsorships totaling \$5000 and donations totaling \$1000
- Raised over \$7500.00 for hometown food pantry Martha’s Mission Cupboard, the largest donation received in over 75 years

## ENERGY/ENVIRONMENT PUBLICATIONS

- S. M. Tulevech, D.J. Hage, S.K. Jorgensen, C.L. Guensler, R. Himmler, and S.H. Gheewala. Life Cycle Assessment: a multi-scenario case study of a low-energy industrial building in Thailand. Under review in *Energy and Buildings*.

## SKILLS AND INTERESTS

**Technical:** Expertise with Python, MATLAB, and Excel. Experience with Java, SQL, ArcGIS, HTML, CSS, and Net Logo

**Interests:** smart transportation, grid storage, distributed systems, IoT, energy technology, energy as a tool for economic justice

**Hobbies** include distance running, backpacking, road trips, stargazing, programming, photography, and reading the classics