

Vincenz A. Buhler

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Education

- Rensselaer Polytechnic Institute**, Troy, New York (Graduated December 2014)
- o Bachelor of Science in Chemical and Biological Engineering, minor in Economics
 - o Senior Chemical Process Design: Biodigester, methanol plant sequence design on Chinese pig farm
- New York University**, New York City, New York (Summer 2011)
- The Hill School**, Pottstown, Pennsylvania (Graduated May 2010)

Work Experience

- Technical Intern**, ARCADIS U.S. (September 2014- December 2014)
- o Reviewing applications for NYSERDA energy efficiency incentive program
 - o Conducted on-site inspections with facility managers to ensure correct installation
- Engineering Intern**, Monolith Solar (July 2014- September 2014)
- o Designed electrical 3-line and layout diagrams for solar panel installations
 - o Worked with New York State municipalities to attain building, electrical, and zoning permits
- Deckhand**, Smith Maritime, Morgan City, LA (July 2013 – August 2013)
- o Worked on tugboats and barges out in the Gulf of Mexico
- Undergraduate Researcher**, Baruch '60 Center for Biochemical Solar Energy Research (March 2012- December 2012)
- o Synthesized reagents for research of photosynthesis energy production
 - o Performed UV/Vis experiments to analyze structure and binding affinity of hemoglobin
 - o Collaborated on four person research team to write research paper on hemoglobin complex
- Volunteer**, Warm Heart Worldwide, Phrao, Chiang Mai, Thailand (August 2010 - December 2010)
- o Partnered with university professors and Thai engineers on design of pig farm biodigester
 - o Responsible for class of 40 children during math and English classes at local school
 - o Mapped out Phrao valley region using GPS and Google Earth to encourage tourism
- Mechanic and Salesman**, Trek Bicycle Store, Jacksonville, Florida (May 2009 - September 2009)

Leadership and Activities

- Membership Coordinator Officer, Travel team**, RPI Engineers Without Borders (October 2011 – December 2014)
- o Traveled on assessment team in August 2012 and 2013 to remote island in Bocas Del Toro, Panama
 - o Responsible for recruiting members during which club grew to more than 50 involved members
 - o Collaborated with team members to perform holistic engineering research and author report determining feasible and sustainable design of potable water project for community of 350 people
- Public Relations Officer**, RPI Solar Racecar Team, Electrical Team (January 2011 – May 2012)
- o Competed at 2012 Shell Eco Marathon in Houston, TX and placed among top ten cars in category
 - o Researched and collaborated with team to install optimal solar panels and battery
- Member**, RPI Varsity Crew Team (January 2011 – October 2011)
- Historian, Activities Chair** Alpha Chapter of Theta Xi Fraternity (September 2011 – December 2014)
- o Took active role in preserving historical traditions for future generations of brothers
 - o Managed \$5000 budget for road trips, mixers, and house camping trip

Skills and Attributes

Languages: Fluent in English and Spanish, beginner German, conversational Thai

Computer Skills: Microsoft Office, Visio, MATLAB, Labview, Acrobat, and NX 7.5 and beginner HTML, Solidworks, Intelligen SuperPro Designer and Aspen

Dual national American and German (European Union) citizen, extensive world travel