

# TRAVIS BUMGARNER

## CONTACT

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## EDUCATION

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**Rutgers University** New Brunswick, NJ  
B.S. in Mechanical Engineering 5/13

## Languages

- *Proficient Spanish*: Seven years experience (work and live in Panama, formal education)
- *Beginner Mandarin*: Eight months experience (intensive tutoring and work abroad in China)

## WORK EXPERIENCE

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**United States Peace Corps** Penenomé, Panama  
*Environmental Health Specialist* 6/13 – Present

- Lead community wide project to upgrade water system for 25 households.
- Collect and analyze data from community interviews and water system surveying to inform decisions about repairing and improving the current water system.
- Create technical map making guide to assist other environmental health specialists in water system design.
- Organized two-day water seminar to teach community about the topics of health, construction, system maintenance, and organization.

*Volunteer Advisory Council Treasurer* 2/14 – Present

- Maintain budget and oversee volunteer grants, merchandise purchases, and holiday gatherings.
- Update Welcome Book that is given to 100 volunteers annually when they are invited to serve in Peace Corps Panama.

**Engineers Without Borders** New Brunswick NJ  
*University of Missouri-Kansas Member* 1/13 – Present

- Act as cultural and language facilitator for team visits to Panama by assisting a group of four team members in conducting household interviews throughout the community.

*Rutgers University Member* 6/12 – 6/13

- Created computer-aided design engineering drawings of soil composition, borehole construction, and system piping to be used in construction of a well in Kolunje, Kenya.
- Partook in meetings to solve technical aspects of the well design, educated the community about water safety, and wrote proposal to get approval for project implementation.

**Light Age**

Somerset, NJ

*Intern*

6/12 – 6/13

- Completed several design projects from conceptualization to implementation, ranging in time from a few weeks to nine months.
- Met with three departments regularly to plan, track, resolve problems, and set project deadlines.
- Created SolidWorks models of products with data imported from AutoCAD or by taking measurements.
- Organized and maintained a database containing SolidWorks and AutoCAD drawings.
- Used machine shop to modify and create parts for testing.

**Rutgers University**

New Brunswick, NJ

*Senior Design Team Leader*

8/12 – 5/13

- Led group of five classmates in the design of a system to store solar thermal energy for a period of 24 hours using phase change of materials.
- Organized weekly meetings and reports, created CAD model of entire system, organized parts list for purchasing, and designed interconnecting piping system.

*SolidWorks Team Leader*

1/10 – 4/10

- Led group of six classmates in the modeling of a power drill in SolidWorks by splitting up work, ensuring timely completion of, and organizing the final presentation.

**Siemens**

6/11 – 1/12

*Intern*

Shanghai, China

- Designed new machine layout to improve the quality of products produced by the wire rod mill.
- Converted outdated CAD drawings to AutoCAD for future machine construction.
- Introduced SolidWorks to coworkers through presentations and tutorials.
- Assisted with English language interpretation of documents to improve communication.
- Developed and led four groups of fifteen coworkers for five hours a week in English lessons.

**Camp Echo**

Burlingham, NY

*Cabin Counselor*

6/10 – 8/10

- Ensured safety, encouraged participation, and resolved problems between campers.
- Selected by management to lead approximately 100 counselors and half of the campers in a weeklong camp competition. Responsibilities included organizing events, scheduling of counselors, and managing conflicts.

**PERSONAL PROJECTS**

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*Photography*

6/12 – Present

- Photograph nature, urban areas, and portraits. Participate regularly in photo challenges for National Geographic. Watch photography lectures and read books to learn about photography.

*Circuitry*

8/12 – 6/13

- Used Arduino kit and online resources to learn about the basic elements of circuitry.

*Python*

7/12 – 8/12

- Watched MIT Open Courseware lectures to learn Python and ProjectEuler.net to practice solving math problems.