

Hi, I Am....

Short introductions for those involved with the Burro-Brown Drip Irrigation Project (Fall, 2016)

Brown Undergrad Team

Oliver Moller - Oliver_Moller@brown.edu



Hi, I'm Oliver and I'm a senior at Brown, studying environmental engineering. I love to travel and I love to build things, both of which have helped draw me to this project. I'm also very interested in the development of infrastructure - both on small and large scales. I have a lot of experience with programming and data science, but also like working with more hands-on, physical prototyping. I started working with Burro on a class project this spring and ended up interning with them in Ghana over the summer. Now, I'm setting up this project and two smaller ones here at Brown during my final semester. My aim for this project is for us to design, test and document a prototype for a small gravity-powered drip irrigation system suitable for Ghana so we can bring Burro one step closer to having such a product.

I also hope to help make this a fun and engaging opportunity for all of us involved and to facilitate a process where we can come out feeling proud of the result and our contributions to it!

Gabriel Buchsbaum - gabriel_buchsbaum@brown.edu



Hi, I am Gabriel. I am a senior at Brown studying environmental engineering with a focus on renewable energy, and hope to eventually work in the energy industry. I am interested in appropriate technology and how it can be used to improve lives in developing nations. I first learned about Burro as part of a class this spring, and believe that the company has an extremely valuable mission. I am interested in this project both due to its potential ability to dramatically improve the lives of small-scale farmers in Ghana and because of its connections to the environment.

Bao-Han (Chelsea) Phan - bao-han_phan@brown.edu



Hi, I am Chelsea, and I'm a senior at Brown, studying engineering with a focus on environmental sciences. I am interested in learning about the ecological and biochemical context of the gravity-powered drip irrigation system. I am also interested in working at an international scale. Burro's mission is super inspiring, and I'm excited to learn more about Burro and to be a part of helping to develop a product with Burro. Likewise, I am excited to learn more about the stories of everyone involved in this project. I am looking forward to a semester of delving into the design process and to collaborate with great minds from around the world.

Phoebe Erickson - phoebe_erickson@brown.edu

Hi, I'm Phoebe and I'm a senior at Brown, studying mechanical engineering with a focus on Biomechanics. I run a small family vegetable farm in my

spare time and love to build things to help it run. This project aligns strongly with those interests. I am also interested in this project because of its social impact. I am excited to develop a product which can help people around the world.

Kevin Peters - kevin_peters@brown.edu



Hi, I'm Kevin! I'm a senior at Brown studying mechanical engineering. My primary interests within engineering are fluid mechanics and statistical analysis. What drew me to this project was how the drip irrigation system depends on so many engineering disciplines: solid mechanics, fluid dynamics, and environmental science, just to name a few. Additionally, I'm excited by the prospect of solving a real-world problem and, consequently, impacting people's lives through this project. I look forward to working with the entire Burro team and learning about engineering design.

Ariel Stolz - ariel_stolz@brown.edu



Hi, I am... Ariel, a senior at Brown studying mechanical engineering. My home is St. Thomas, Virgin Islands which is a really tiny island in the middle of the Caribbean Sea. I heard about this project through Oliver who is one of my classmates in a Capstone design class. I was interested in joining because of the fluid dynamics concepts needed to make this irrigation system gravity powered and as low tech as possible. I am excited to be part of this group as the project seems extremely useful and has a great motivation. Also I am interested in designing and I believe that we can create a great prototype over this semester.

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