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Kelly Stefanski's Individual Contribution Page

Spring 2017

I recently joined AguaClara after my exposure to design challenges in CEE 4540 and working on the 1 L/s plant in Honduras. My personal goals for the semester are to familiarize myself with AguaClara standard procedures and expectations. As well as learn new software such as ProCoDA and technical writing techniques using LaTeX. I will be working on building an Arsenic Sensor to measure the removal of arsenic in AguaClara plants. My ultimate goal for my team and I is to be able to show what we've learned and how we've progressed through the accomplishment of creating a cost-effective, reliable way to detect arsenic in drinking water. I am excited to create something tangible and that can speak for itself in the hopeful success of our project. I look forward to working with my team as colleagues and as friends.

During the Spring 2017 semester I worked on the Research Team, Arsenic Sensor. So far, I have contributed to determining an appropriate procedure to base the arsenic detection method off of and worked toward recreating it. By using DI water with a controlled amount of arsenic and creating a reaction through a mixture of solutions to create a blue color change, I feel confident this colorimetry method can help us detect arsenic at different concentrations without the use of a spectrophotometer in the field.