

Abstract Submitted
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International Senior Design Service Learning Project: Creating a Water System for Kuna Nega in Panama City, Panama DAN BUDNY, University of Pittsburgh — International service-learning projects are an effective educational tool for universities striving to meet the ABET engineering criterion, while also providing transformational experiences to their students and a service to needy populations in the world. This student poster discusses the benefits of an international service-learning project in Panama City, Panama. The presentation will discuss the design and installation of a water distribution system including a two pressure system, two ground storage tanks, a pump station and the various control systems to fill the tanks. To meet the water demand with the limited supply additional individual rain water collection systems were also installed at individual houses to provide a gray water system for bathing. The year-long process of development design and construction will be described and how it fits within the Swanson School of Engineering Department of Civil Engineering senior design course. This project was a collaboration between the senior design course, and a local chapter of Engineers Without Borders.

Dan Budny
University of Pittsburgh

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