

# Engineering World Health: Guatemala, Winter Institute 2018

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## The course...

Prior to traveling, students participated in a technical training course offered through the Biomedical Engineering Department (BIME-395). The class gave students a basic background to standard medical devices found in hospitals as well as common challenges they might encounter when fixing equipment with limited resources. Students also gained introductory skills that would prove useful in the field, including soldering, circuit board assembly, and preventative maintenance practices. Lastly, lessons discussing both the local and national culture helped further prepare the students for adjusting to the different working and living environments abroad.



## EWH Worldwide

The international organization, originally founded in 2001 by Dr. Bob Malkin and Dr. Mohammad Kiani, now has locations in nine different countries!



EWH also offers summer programs in Kenya, Rwanda, and Tanzania



## The trip...

- Partnered with DoGuatemala
- On-ground coordinators (Thomas & Paul)
- Spanish lessons in Xela
- Working in hospitals at Totonicapán, Retalhuleu, Mazatenango
- Final presentation



### Equipment fixed:

- Incubators
- Aspirator
- Oxygen sensor
- Hospital beds
- Microscopes
- Operation tables & lamps
- Centrifuge
- Ultrasound
- Water cooler

## Mazatenango



## Totonicapán



## Retalhuleu



## The experience...



- Homestays
- Cultural excursions
- Language
- Food
- Art & History
- People



### Places visited:

- Quetzaltenango (Xela)
- Volcán Chicabal / Chicabal Lake
- San Pedro La Laguna
- Lake Atitlán

