University Engineering Students Present their GLOBE Instrumentation Projects Virtually

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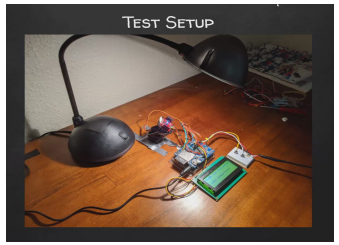
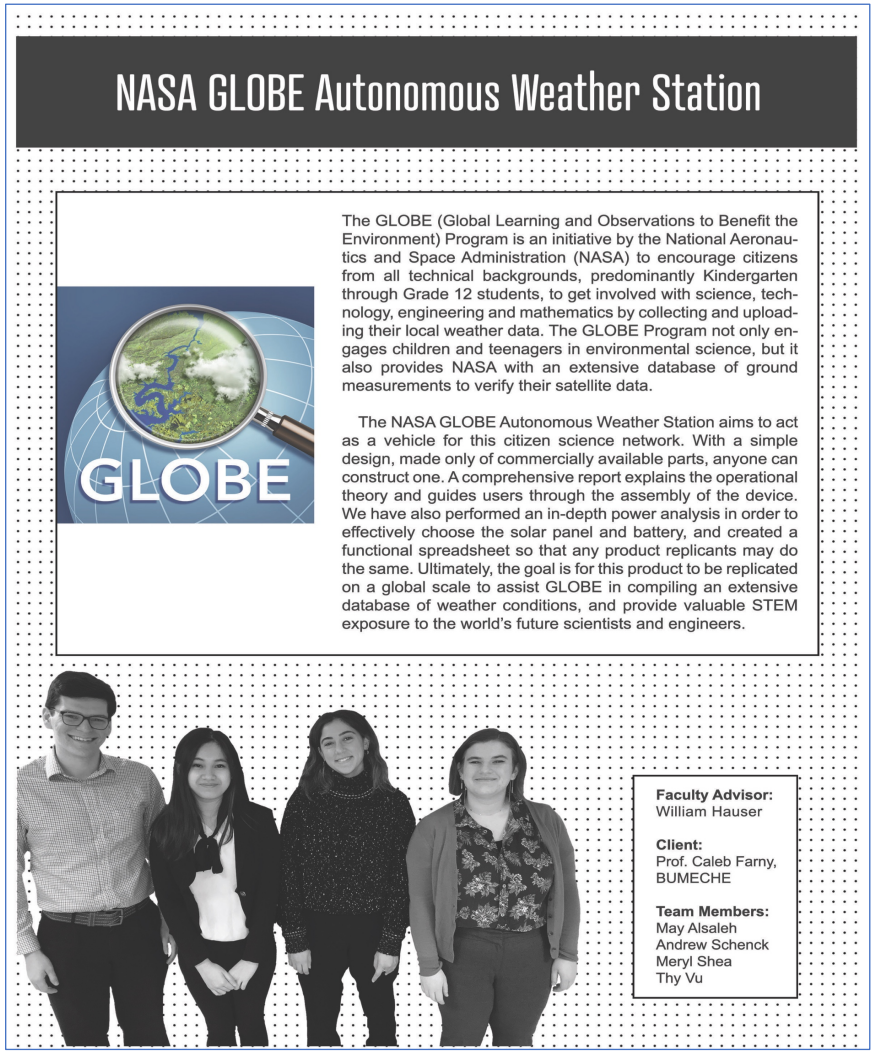
Boston University's
College of Engineering

Two groups of engineering students from University of Toledo and Boston University designed instrumentation for GLOBE protocols this past semester. The University of Toledo and Boston University Colleges of Engineering held virtual events on May 1 and May 4, 2020 respectively on their senior design projects. Both groups hope that high school students build and use these sensors.



Design team: Daniel Astorino, Matthew Bosman, Joshua Blohm, Aaron Rieman and Christopher Weis
Faculty advisors: Glenn Lipscomb, PHD and Ezzatollah Salari, PHD

The sun photometer aims to be a low-cost and easily assembled device used by students to measure and log particulate aerosol optical thickness (AOT) in the atmosphere. This sensor can optimize the angle of capture, measure six channels of visible light, calculate AOT from light intensity, and log the data on a SD card.



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