

Supporting Persistent Online Students in the Fundamentals of Engineering Program

Dr. Gerald Angle

Equipment Received

- USB Webcam Kit
Setup for Study Group Sessions
- Document Camera Kit
Setup for Tutor use in the Virtual Engineering Learning Center
- USB Microphone Kit
Voice over of GoPro Videos using DaVinci Resolve software and Zoom recordings
- Action Camera Kit
Used to make demonstration videos of things completed by on-campus classes in lab setting

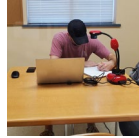


Figure 1: ELC Tutor using Document Camera to answer questions.



Figure 2: Screenshot of Video for recording data in lab.

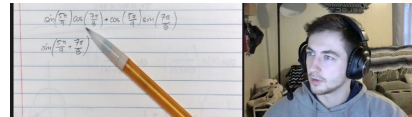


Figure 3: Screenshot of student getting help from a tutor using the Document Camera.



Figure 4: Screenshot from the Microsoft Excel Pivot Chart help video.



Figure 5: Screenshot from configuring the West Point Bridge Designer Software help video.



Figure 6: Screenshot from the West Point Bridge Designer Software simulation help video.

Results

- Over 800 YouTube Channel views
- Over 400 Matlab Study Group Sessions held
- Over 1000 Tutor Visits to Virtual Learning Center