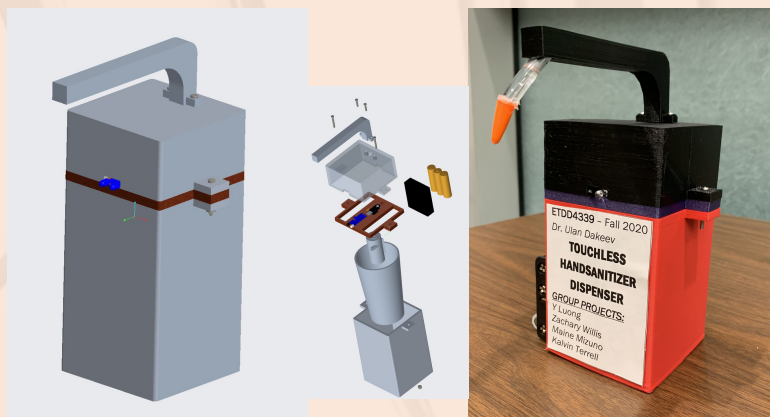# FALL 2020 PROJECTS

ARCADE

(Augmented Reality Computer Aided Design Education)

The ARCADE tool enables students to not only visualize the isometric product from its orthogonal views, but it also provides short tutorial clips how a specific feature was developed and what tools were used. The students can perform basic modifications on the 3D part in the ARCADE such as section views, details views, scale, rotate and explode the assembly views.

Touchless Hand Sanitizer Dispenser

"COVID-19 is taking such a gigantic role in our daily lives and we need to be cautious constantly. Because of this, we created an electric sanitizer dispenser by 3D printing parts and affordable simple constructed circuit. By using this, we can eliminate the possibility of virus transmission by touching contaminated surfaces" - Team Member

Disinfecting Booth

The portable disinfecting booth, which is constructed with PVC and attached disinfectant spray tank, is proposed to reduce the infectious rate significantly by removing the infectious respiratory droplets lasting on clothes and skin by using disinfectant spray against the SARS-CoV-2. The booth is equipped with a motion detecting sensor (raspberry pie), that activates the spraying system when a person is detected in the booth, to provide efficient use of disinfectant. Due to the usage of affordable materials such as PVC Pipes, the cost effectiveness and construction simplicity would be able to encourage high school and other community relief organizations to produce on their own from the provided tutorials.

The Multigrill

The Multigrill is a conceptual design of a grilling multitool that takes the place of an internal heat tester, flashlight, and spatula, with the possibility of being redesigned to do much more! Carrying several cooking utensils with you when you grill somewhere other than your house, like a campsite, can be a hassle and can be the cause of misplaced or stolen utensils. With the proposed concept of the Multigrill, almost everything you need for grilling is efficiently packaged into a tool no bigger than an ordinary spatula.