

# **CSU** **CHANNEL ISLANDS** **COVID PPE**

**ENGINEERING DESIGN CYCLE WITH LOCAL HOSPITAL SYSTEM**

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[HTTPS://CSUCI.ZOOM.US/J/86327016006](https://csuci.zoom.us/j/86327016006)

Since March 2020, members of the University of Southern Mississippi team worked in close coordination with local medical professionals to design, prototype, assemble, and produced 7 responsive solutions to COVID 19 PPE shortage within 2 months. Within a month, we locally manufactured 6000 reusable masks for the hospital as they waited for their N95 supply. Eagle Maker Hub was designed as a laboratory to research integration of digital fabrication to teaching and learning mathematics. This talk will highlight the ways in which the tools and community around Eagle Maker Hub helped create solutions for the PPE shortage for local hospital systems through the engineering design cycle.

