# W.A.S.P.
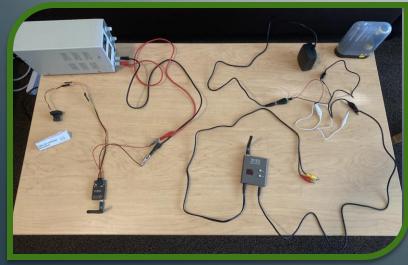
Wireless & Autonomous Surveillance for Pandemic

Andrew Cornell, Justin Filimon, Justin Le, Alexander Maxwell







```
In [28]: pred = model.predict(img)

         if pred[0][0] > .75:
             print('Nose exposed!')
         else:
             print('Nose is good.')
         print(pred[0][0])
         if pred[0][1] > .5:
             print('Mouth exposed!')
         else:
             print('Mouth is good.')
         print(pred[0][1])
         if pred[0][2] > .5:
             print('Chin exposed!')
         else:
             print('Chin is good.')
         print(pred[0][2])

         Nose is good.
         0.01186632
         Mouth is good.
         0.0036074196
         Chin is good.
         0.022699485
```

Slowing the spread of a viral pandemic such as, COVID-19, is essential to saving lives. According to the CDC, simply wearing a mask helps prevent the spread of the virus.

Our project uses a custom-made artificial intelligence to detect whether people are wearing a mask properly when entering a monitored space. It will make use of a wirelessly controlled camera to be able to do its detection.

SACRAMENTO STATE