

# **James Friend**

**Professor, Mechanical Engineering and Surgery at UC San Diego**

San Diego, CA, US

Designing, engineering and testing ventilator prototypes to address ventilator shortages.

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## **Biography**

Professor Friend leads the Medically Advanced Devices Laboratory at the University of California San Diego. He is a professor in both the Department of Mechanical and Aerospace Engineering at the Jacobs School of Engineering, and the Department of Surgery, at the School of Medicine. He has over 270 peer-reviewed research publications, including 140 journal papers and eight book chapters, and 27 patents in process or granted, completed 34 postgraduate students and supervised 20 postdoctoral staff, and been awarded over \$25 million in competitive grant-based research funding over his career. He is a fellow of the IEEE.

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## **Areas of Expertise**

Medical Devices and Instrumentation, Microfluidics and Microfabrication, Coronavirus, COVID-19, Surface Acoustic Waves, Fabrication of nanoscale devices, Aerospace Engineering, Engineering, Mechanical Engineering

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## **Accomplishments**

**MAE Best Teaching Award**

2016-2017

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