Rescue Device for Diaphoretic EKG Acquisition

Advisors: Brenton Faber
Area of study: Biomaterials, Device Design, Biosensors
Preferred Expertise: Physiology, Biomaterials, 3D printing
Team size: 2 students (BME)
An ongoing problem with most EKG electrodes is that they function poorly on diaphoretic (sweaty) patients. Yet, these are the very patients for whom an early EKG can be life saving.

**Project**

Design a device that can overcome diaphoresis in the setting of EKG acquisition.

**Challenge**

Current attempts to overcome diaphoresis have focused on “extra-sticky” electrodes. However other approaches may produce better results.