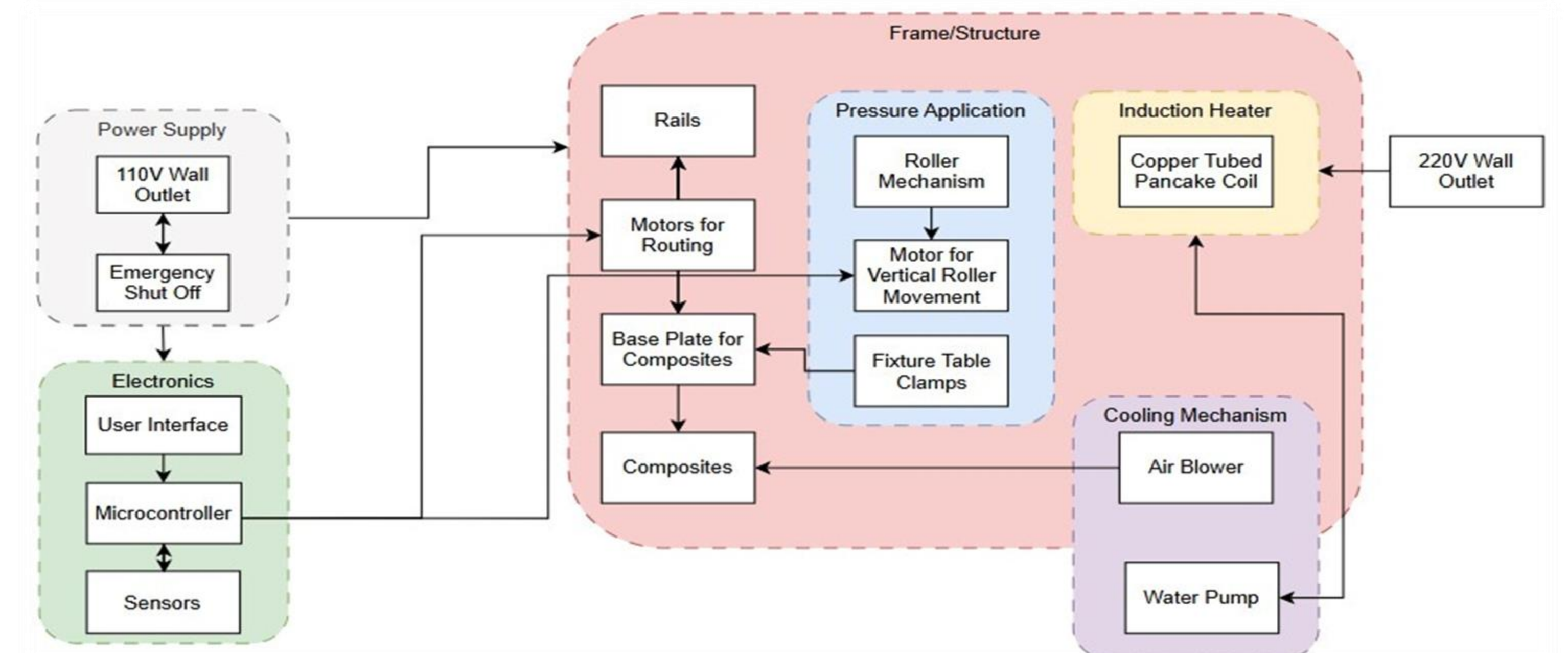




## Project Overview

Sponsored by Dr. Satchi Venkataraman, this project develops an apparatus for induction welding thermoplastic carbon composites for material testing. This method is being developed for next-generation aerospace structures due to its potential for fast, uniform, and reliable panel bonding. The system uses a stationary pancake induction coil, a translating kinematic mechanism, and controlled pressure to produce consistent, high-quality welds.

## System Level Diagram



## Meet Team InductiFuse



Abel Estrada



Christian Miller

Mechanical Engineering



Matthew Richard

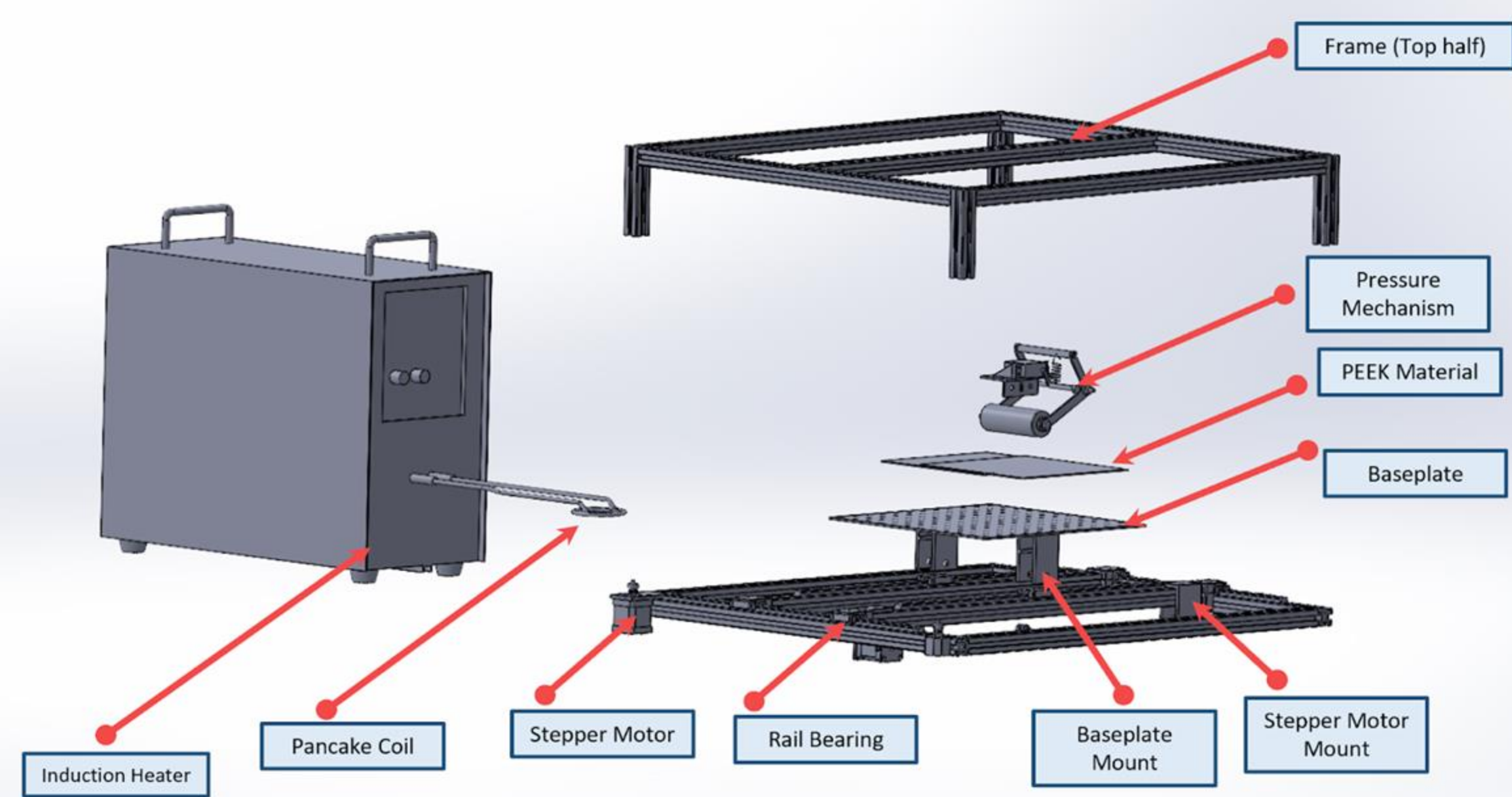


Elliot Berman

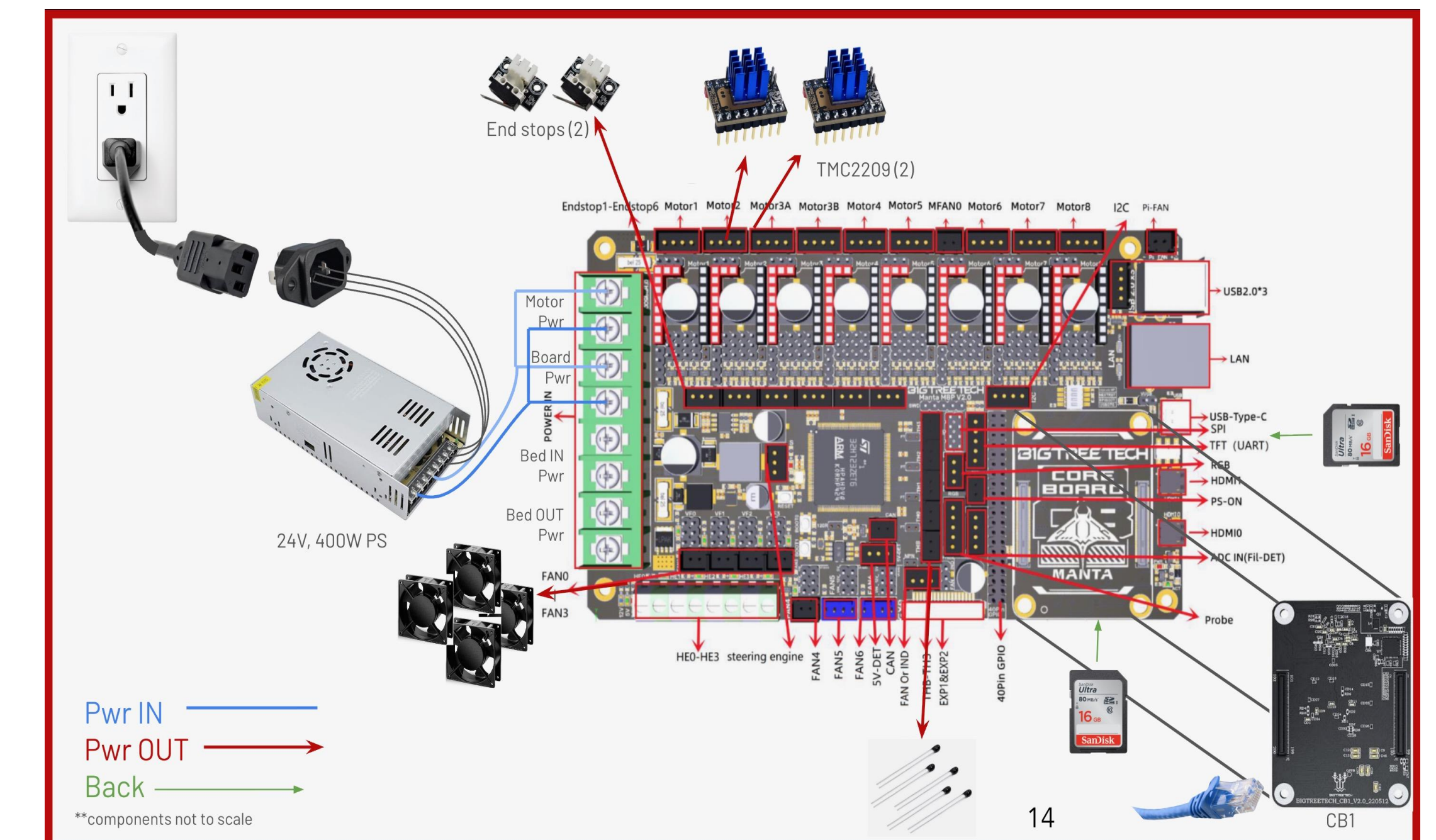


Ryan Pursel

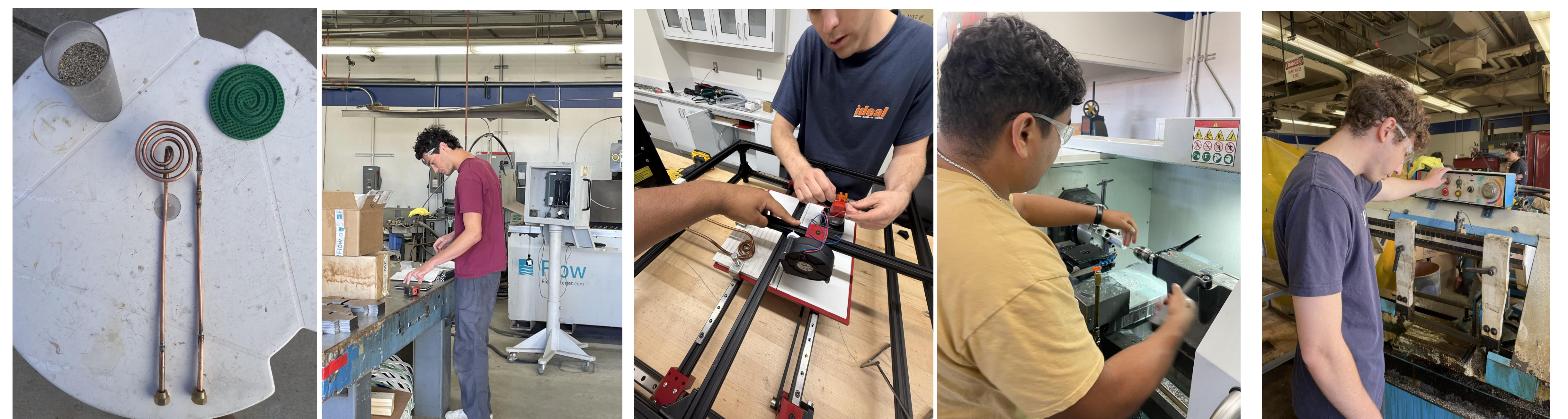
## Exploded View



## Electrical



## Manufacturing



Electrical Engineering



Abby Gittings



Andrew Margo