



Project Objective

To design and manufacture a lithium processing chamber to heat and press lithium for Dr. Wood's battery science research project at San Diego State University

Design Specifications

- Ability to control the atmosphere in the lithium chamber (presure of 1520 mm Hg and vacuum of 200 mm Hg)
- To do heating and pressing of lithium (reach 181°C of melting point)
- A size of chamber must fit inside the glove box used in Dr. Wood's lab • The chamber materials must be
- non-reactive with lithium



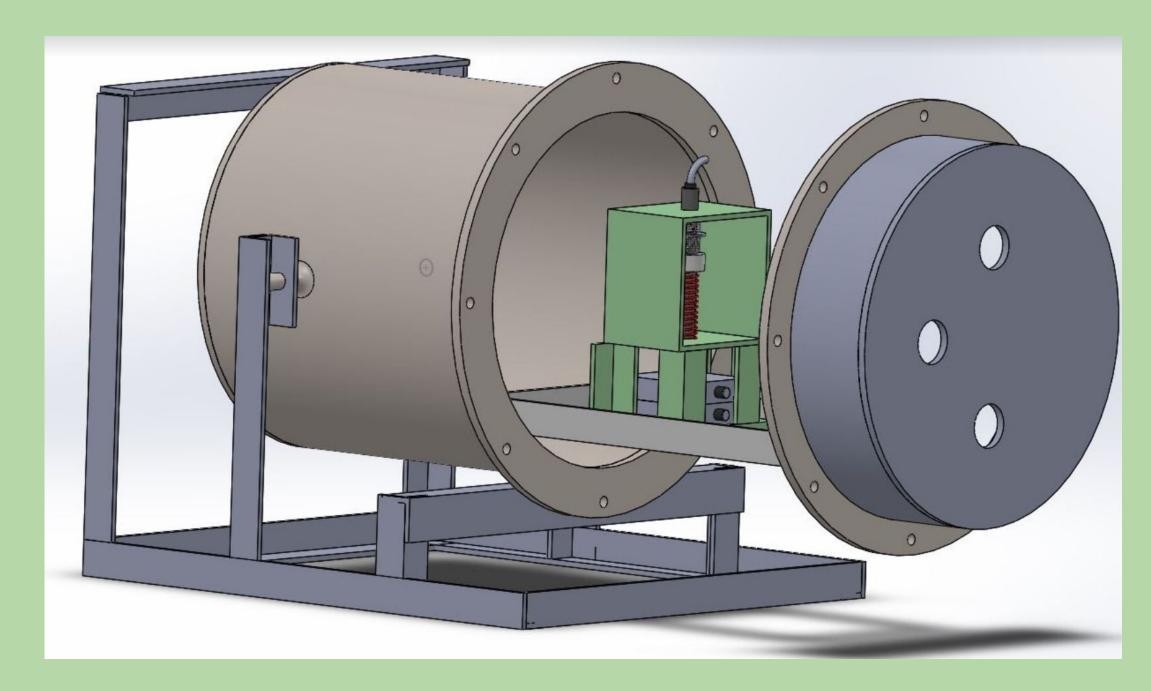


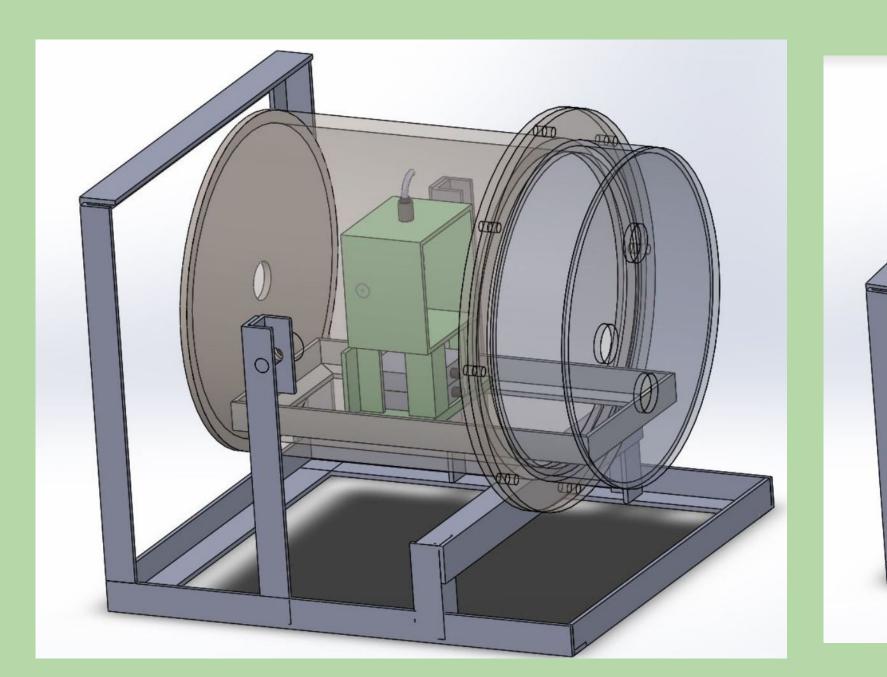
Team

Ilze Sarma Jack Bowen Mike Johansen Sponsor: Dr. K. Wood, Faculty advisor: Dr. K. Moon

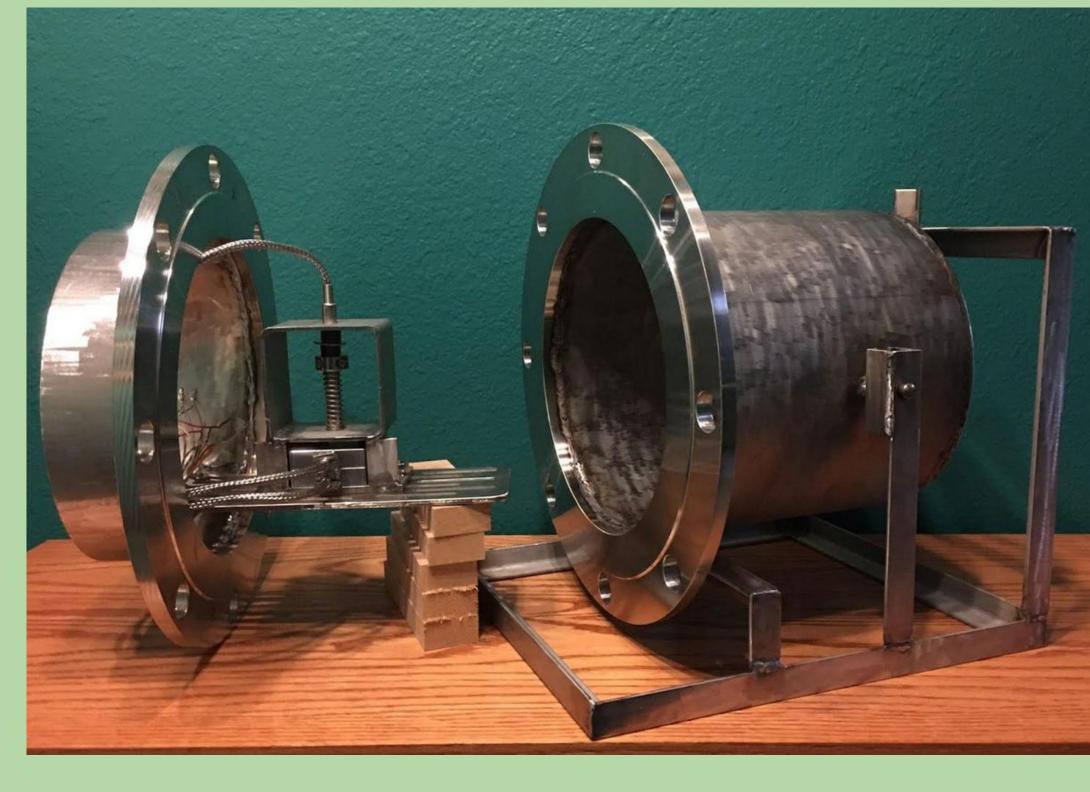
LITHIUM PROCESSING CHAMBER

Design



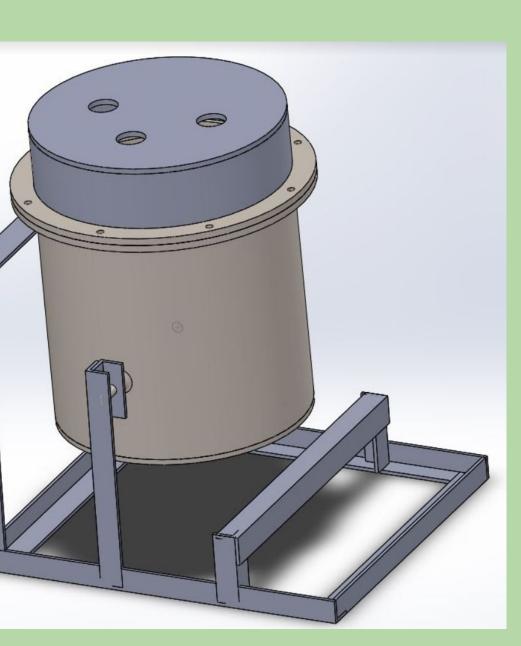


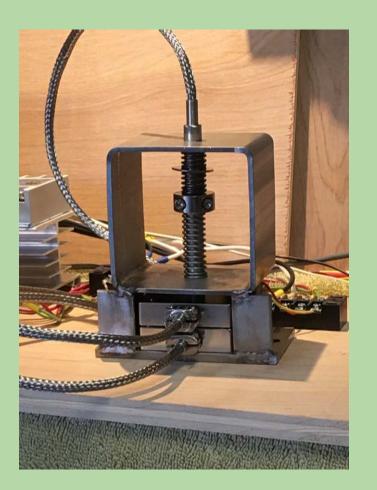


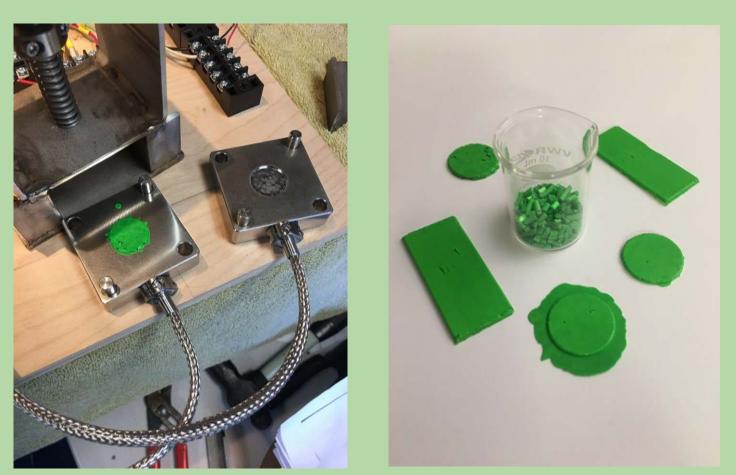


Testing









Results

 Produced chamber met all design specifications • Tests of pressing process were successful

