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 (pressure 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

Design

Testing

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

Team
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Sponsor: Dr. K. Wood, Faculty advisor: Dr. K. Moon

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