

Mold Final Presentation

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Design Challenges and Solutions

- We had problems with Mini Mill operations but Ari and Daphnie helped us to troubleshoot those problems and we were able to complete the mold halves and molding on time.
- Morgan press stopped working after 3 molded parts. The reason was that the shoot/cover was not closed properly and thus the press stopped working as precautionary measure.
- Initially, the dowel pins were protruding out by a larger length resulting in difficulty while separating the two halves of the mold. We pushed the dowel pins inside the holes making it easy to separate the two halves.

Design and Manufacturing steps

- Prepared the stock for two halves of the molds
- Performed plastic flow analysis in SolidWorks and prepared the CAM file
- Machining of the two halves on Mini Mill for 3 hours
- Post operations of making locating pin holes, sprue hole and bottom slot
- Insertion of the dowel pins inside the holes
- Plastic molding on Morgan press
- Post operation on molded parts like removing the web of battle axe and the extra part created due to sprue







