

# Jergens, Inc. Mechanical Engineering Internship



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Choose Ohio First

## INTRODUCTION

Jergens Inc. is a manufacturing company which has produced industry-leading workholding solutions, lifting solutions, and fasteners for over 80 years. Headquartered in Cleveland with additional locations in India and China, Jergens' commitment to quality and innovation is known by customers worldwide. Aside from manufacturing, there are two subdivisions that focus on automation and industrial supply.

## OBJECTIVES

My role as a "Mechanical Engineering Intern" at Jergens was to work with the machinists and other engineers on various projects, most of which involved improving efficiency and quality. My main goals while working at Jergens were to become familiar with product engineering, improve my technical skills with different engineering programs, and to assist in quality assessments.

## SKILLS LEARNED/IMPROVED

- Geometric Dimensioning and Tolerancing
- Solidworks
- Microsoft Excel
- Internal and External Communication
- Reverse Engineering
- Working in a team environment

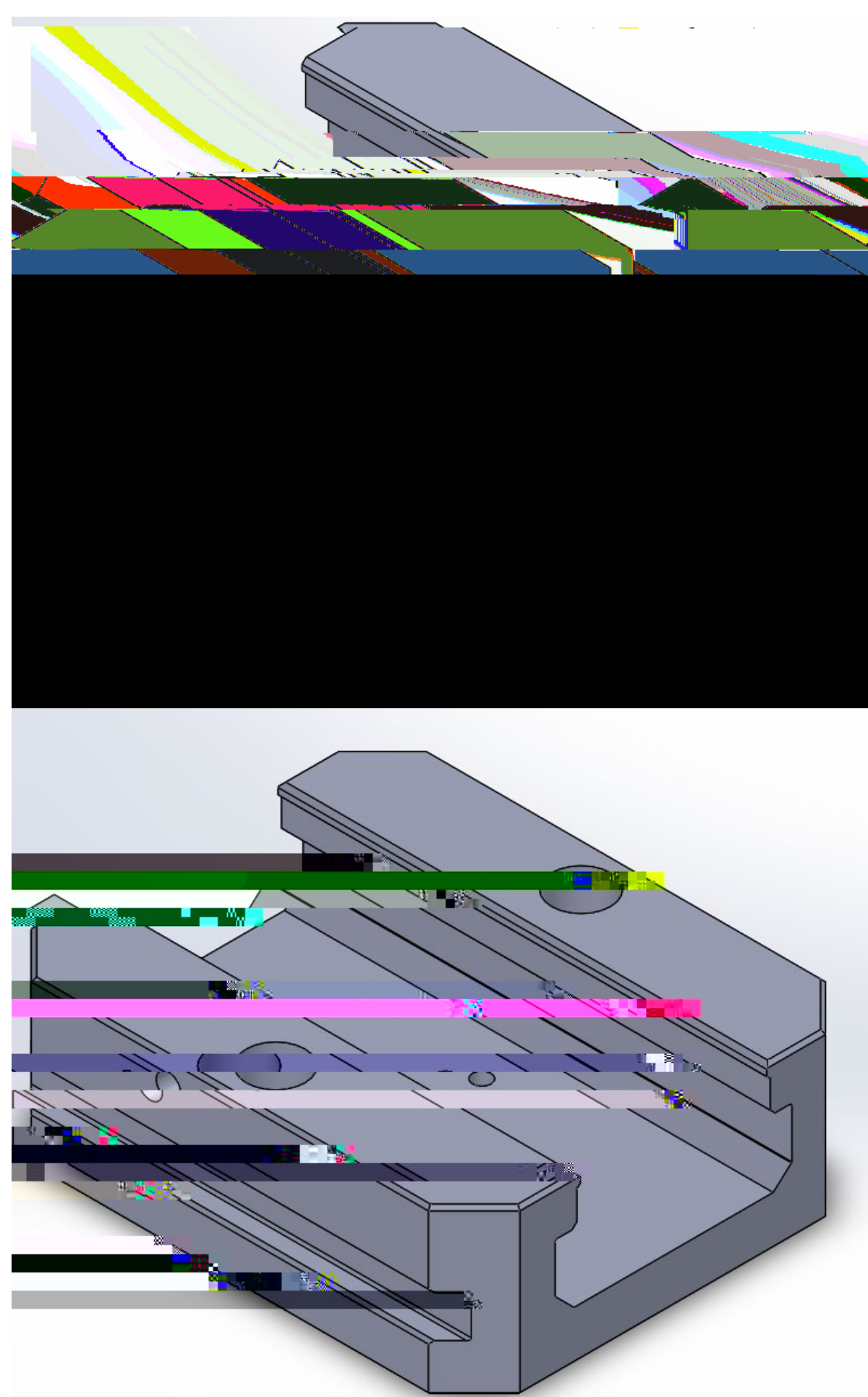


Figure 1: (Above) Original process vise base model, (Below) updated process vise base model.



Figure 2: Updated Vise Base Print.

## MAIN PROJECTS

- Creation of new drawings for several vise bases
- Tracking the quality of multiple runs of vise bases
- Designing jaws for lathes and vertical mills
- Reverse engineering of a few small parts that lacked drawings

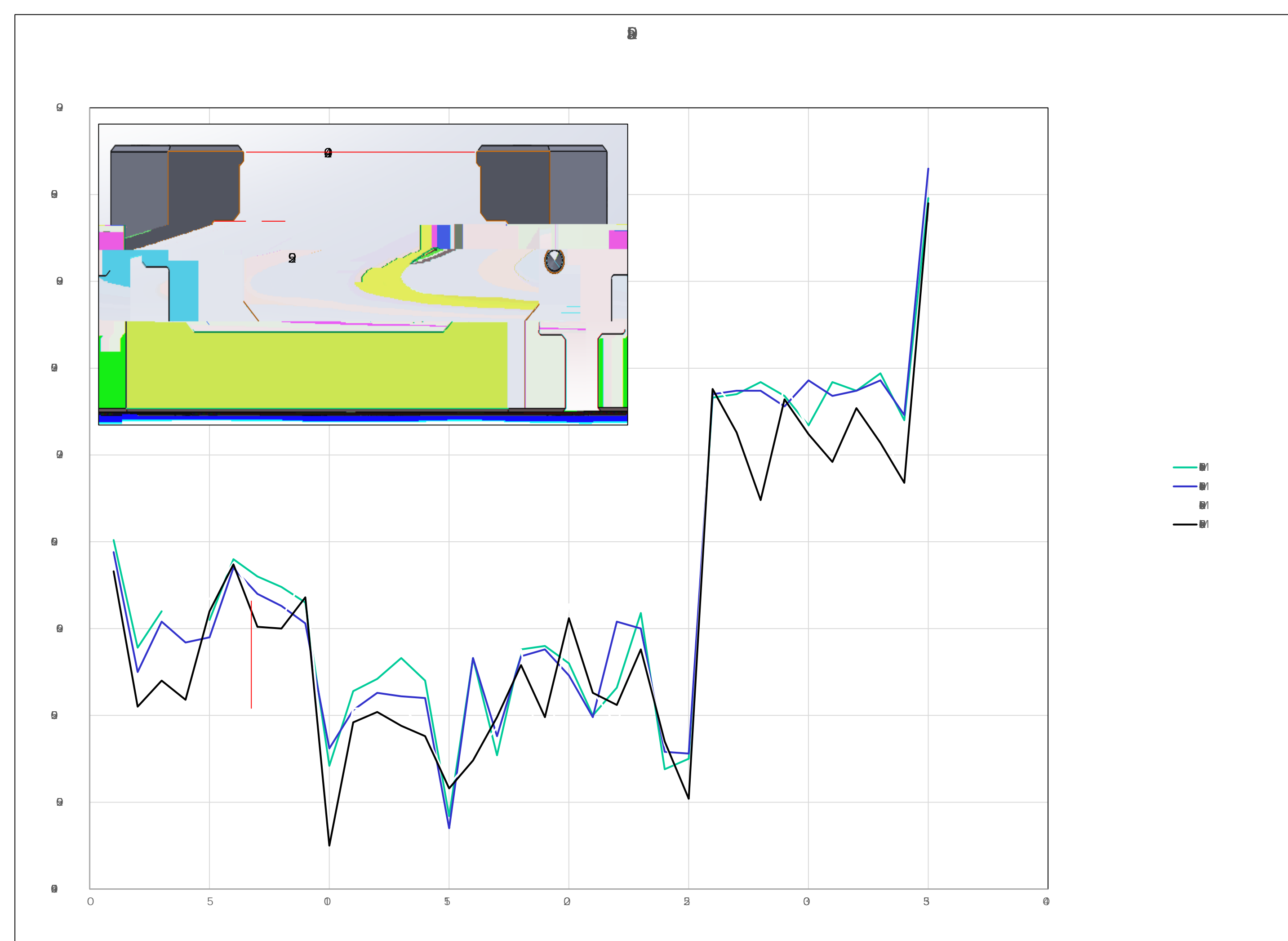


Figure 3: Graph of specific dimension's change over time.

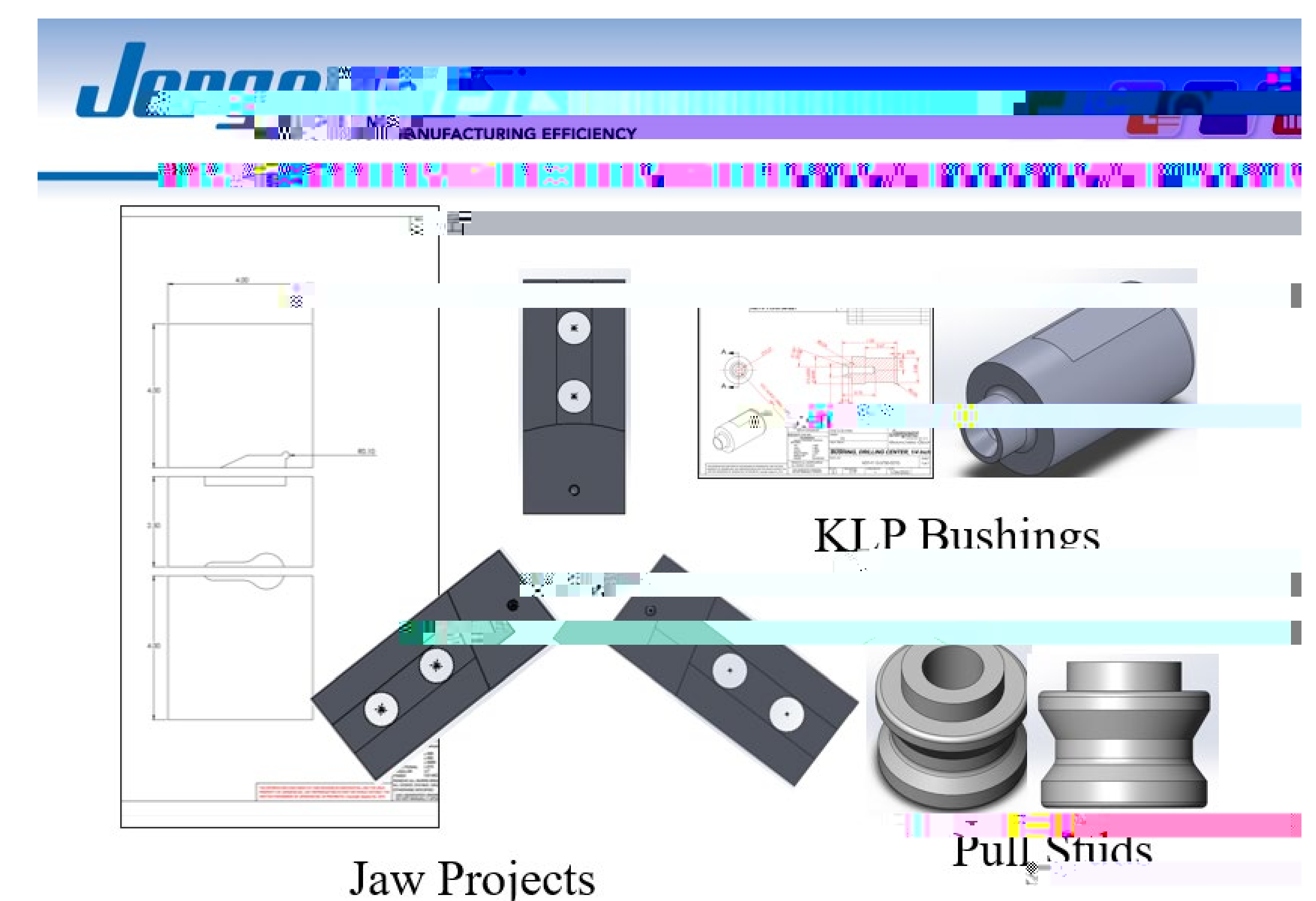


Figure 4: Other projects I contributed to.

## FUTURE WORK

Although I have no current plans to return to Jergens in the future, I would be more than willing to resume my employment there after graduation. Although manufacturing is not the field I would like to pursue, understanding how machining and production works is critical to success in engineering design. I hope that wherever my career takes me will have as inviting, challenging, and stimulating an environment as the time I spent at Jergens.