



**My Junior year  
internship**



## **What I did**

I did not have a set role but I did worked on the machines, learning how they were run, how they work, and how to set them up. On some days I would run a machine that was running production parts, while others I would watch and help as my mentor set up a machine to be run.



# Project

website

For my project one of the things I worked on was updating and redesigning the website, (images on next slide)

#### MACHINING CAPABILITIES

Large & Small Volume Precision Machined Parts Turnkeying & Wide Range Materials, Vertical & Horizontal CNC Machining Centers, Turning Centers

We can often hold fine slots inside and milling on one side of the part equipment. Our CNC milling machines offer full simultaneous five axis machining up to 8 inch diameter. Our CNC lathes can turn up to 8 inches in diameter efficiently with two separate turrets. Virtually all of our manufacturing is done on state-of-the-art CNC equipment. Our capabilities include 2 and 4 axis lathes.



#### MATERIALS

Our machining expertise encompasses a wide array of materials including, but not limited to the following:

Aluminum	Titanium	Stainless Steel (all types)	Inconel	Cast Iron
Brass	Steel	Fluoropoly	Plastics	Teflon
	Kevlar	Carbon		

If the material is machinable, we can process it to the most exacting specification.



#### INDUSTRIES SERVED

Serving a Wide Variety Of Industries Including: Aerospace, Computer, Medical, Electronics and more



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Alvarado Micro Precision Inc. we are a CNC Milling and Turning shop

providing a wide range of services



Any question feel free to contact us,

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#### OUR EXPERTISE

Specializing in serving OEM's components suppliers with rapid prototypes and quick turn around of critical parts for customers in a "line down situation".

Our 10+ years in business (20+ years combined experience) includes machining precision parts from difficult-to-machine materials and other high-temp, hard materials. We also specialize in producing high volume, close tolerance machine parts in a dependable, efficient and cost effective manner.



#### CUSTOMER SERVICE

We're dedicated to bringing you effective and efficient service. As a partner in our customer's delivery commitments, production machining is organized and carefully managed to meet schedules. We are very adept to changing demands. We know the importance of being a flexible supplier.

In order to accommodate our customers' demands, we operate two shifts with the ability to utilize extra shift resources when necessary.

We ship to accommodate the delivery schedules of our customers. Our shipping department has the experience and the resources to take care of getting parts to the customer on time and in a safe and efficient manner. We understand the impact freight cost can bear on the overall profitability of a product.



#### STATEMENT

We have earned a reputation for quality. We offer highly skilled, close-tolerance machining expertise, bringing a wealth of experience and performance to every project. Over the years we have machined the parts from aerospace and computers to medical and other industries- offering our customers extensive services and unwavering commitment to the highest quality.

We employ the latest in engineering and machining technology with vertical machining centers, in addition to CNC turning centers. Our core competency is in the machining of complex components to close geometric tolerances. It is our goal to meet, but more importantly, exceed any customer requirement. Whether it is sub-thousandths tolerances, or less stringent prerequisites, our mission is to be consistent from part to part and lot to lot.





## Machining capabilities

Four axis milling  
2 and 4 axis lathes

- Aluminum
- Titanium
- Stainless Steel (all types)
- Inconel
- Cast Iron
- Bronze



## Materials

- Brass
- Hastelloy
- Plastics
- Tool Steel
- Carbon Steel
- Steel
- Kovar
- Haynes



## Industries served

- Aerospace
- Medical
- Underwater
- Automotive
- Computer
- Electronics

## Our Machines



Any question feel free to contact us

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## About Us

### OUR EXPERTISE

Alvarado Micro Precision Inc. was founded in 1997 by current President, Jorge Alvarado. We are a CNC milling and turning shop providing close-tolerance machining expertise, specializing in rapid prototyping as well as volume production of precision parts from various types of materials. Alvarado Micro Precision has over 20 years of experience machining components for a wide variety of industries including aerospace, medical, underwater, automotive and anything in between.

video 1 →



video 2 →



### CUSTOMER SERVICE

At Alvarado Micro, we strive to consistently meet and where possible exceed our customer's expectations. We are dedicated to providing effective and efficient service with rapid prototyping and quick turnaround of critical parts for customers in a "line down" situation. As an ISO 9001:2015 certified company, we are continuously improving the effectiveness of our quality management system to ensure the highest level of customer satisfaction.





## Skill

The skill/knowledge that I already had before going into this that I found really useful was understanding the terminology and the understanding of basic machining. This really helped me because I had a background for what was being taught to me and I was able to go back on in and add to it.

A skill that I have developed over the time here is, how to check parts and better knowledge of how these machines work and what kind of parts are possible to make with them.



## **Impact**

I don't think this internship has changed my mind on what I want to do because this is in a slightly different field from what I want to do. This is the step before and after what i'm interested in going into. As I am interested in designing and then putting together new parts, but not making the individual parts themselves.



# Challenges

One major challenge I faced was not understanding spanish well enough to get what they are saying. There was not really a way for me to solve this in the time that I was here besides learning the language better.





## Communication

Communication is very important in the work, this is because we need to be able to keep track of what has been done to parts, how many there are, what still needs to be done on these parts, and what comes next. This was done by writing down on paper all this information. Another use of communication that was used often was when I was running a machine and a part did not come out to spec, I would have to make sure to tell my mentor that the dimensions are off and there might be an offset that needs to be changed.



**Thank you**

Questions?