

Mikael Neal

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CNC Mill Machinist with 15 years of experience in both a production and prototype environment serving a variety of industries.

Professional Experience

American Spirit Arms (Scottsdale, AZ)

12/04 - 12/09

CNC Mill and Lathe Machinist, Production Supervisor

American Spirit Arms was a manufacturer of AR15 style firearms and components. While serving as a supervisor my duties were to oversee the manufacturing and assembly of the firearms from concept to delivery.

- Fabricated fixturing and tooling to machine aluminium forgings in 3 and 4 axis mills. Profile and chamber rifle barrels using various CNC lathes.
- Created blueprints and inspection criteria for machined parts at a pre-plate level while coordinating with outside finishing vendors making sure parts fell within military specification and best form fit and function.
- Assembled and tested firearms for cycling and accuracy.

Pro Precision (Phoenix, AZ)

05/10 - 05/12

CNC Mill Setup and Lathe Operator

Pro Precision is an extremely fast paced production oriented machine shop that serves a wide variety of industries. From manufacturing liposuction pumps by the thousand to making a single landing gear component for an obsolete aircraft, no challenge was turned down.

- Receive and interpret customer purchase orders
- Create inspection reports per ISO 9000 requirements.
- Develop NC programs using CAD/CAM software
- Setup and prove operations in 3 axis vertical centers in a cell configuration.
- Maximize profitability by streamlining production techniques
- Perform machine repairs and maintenance.

Machinists Incorporated, Seattle Washington

05/12 - Present

CNC Mill Machinist. Floor Lead.

As one of the largest machine shops on the west coast, Machinist Inc is a tier 1 supplier of ground support equipment for Boeing commercial and experimental aviation. Specializing in the milling, turning of very large components and welded structures. Maintenance machining and reverse engineering to repair or replace parts for the Maritime, Mining, and private space exploration industries.

- As the 1st shift floor lead provide crew the assistance in handling, fixturing and programming of various parts and assemblies.
- Interpret customer drawings/ models and provide a production plan by collaborating with the heads of the engineering, fabrication, and programming departments.
- Safely Lift, orientate large parts or structures onto machine utilizing overhead cranes and a multitude of rigging techniques.
- Fixture and locate workpiece origin generally on the 4th axis "B" of Horizontal boring mills. Often adding an "A" axis to the machine if 5 axis was required.
- Optimize new or existing NC programs to ensure maximum efficiency without adding risk or reducing tool life.
- Perform in process inspections using a variety of methods often with the workpiece still secured to the machine.
- Deburr and clean before routing to QA for final inspections.

Key Skills

- Extensive knowledge of machine tooling, drills, milling, boring etc. Proficient in calculating feeds and speeds per cutter data and material type.
- Familiar machining many types of materials from styrofoam to inconell, specializing in fixturing unstable hard to hold, large workpieces while not allowing for any deformation.
- "Team Player" for lack of a better term. I enjoy collaborating with other professionals when trying to overcome a difficult task.

Interests

- Getting outdoors, either on a dirtbike or in a four wheel drive truck. You can also find me hiking, shooting and camping or just sitting in a lawn chair.
- Spinning wrenches in the garage, performing repairs and modifications to as well as restoring vintage motorcycles.

References

Aaron Behme - Plant Manager, Machinist Inc
(206) 793-0440 | aaronb@machinistsinc.com

Tim Spencer - Machinist, Blue Origin
(253) 347-6798