

ANNE - MARIE BUCHENAN

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EXPERIENCE

Al-An Manufacturing, Inc. Carver, MA Apr 06 - Present

CAD/CAM Programmer and Machinist

2nd Engineer in family machining business manufacturing production heat seal and RF tooling, prototype machining, and components for custom automated machinery

- Programming and running CNC mills and other machinery
- Assembling parts to blueprint
- Carrying out general shop upkeep to keep operations running smoothly

Plymouth Grating Laboratory Carver, MA May 13 - Jan 14

Metrology Intern

General intern, specializing in metrology, in a company producing high-efficiency holographic diffraction gratings

- Measured efficiency of products using reflectometry and interferometry
- Imaged gratings on the scanning electron microscope
- Sandblasted equipment and other maintenance
- Researched and tested techniques for producing blazed gratings

Aramark Corporation Needham, MA June 12 - Aug 12

Green Campus Summer Fellowship Program, Olin College

Partner to campus facilities with a goal of improving sustainability and stewardship efforts

- Installed and monitored data loggers on solar panels to track energy captured
- Implemented dorm composting
- Researched and recommended native, bee-friendly plants for future campus landscaping

EDUCATION

Franklin W. Olin College of Engineering Needham, MA 2010 - 2014

Bachelor of Science in Mechanical Engineering

- GPA: 3.17

SKILLS

Programming and running CNC mills

Running manual mills, lathes, drill presses, and band saws

Using scanning electron microscopes (SEMs)

Reflectometry and interferometry

Python, MATLAB, SolidWorks, Blender, 3D Slicer, Mimics, Photoshop