

The documentation for your lab project will be in the form of a manual for the operation and maintenance of your machine. This manual must include:

Instructions for:

1. loading the machine
2. starting the machine
3. clearing jams

Diagrams:

1. mechanical drawings or annotated photos
2. PLC ladder logic
3. State machine(s)
4. Motoman robot or Linux CNC programs
5. Stepper motor configuration (PLC or LinuxCNC)
6. Wiring diagram or table, listing all I/O connections between PLC, sensors, pneumatic valves, step motor amplifiers, LinuxCNC breakout boards, Motoman robot, or other devices.

Descriptions:

1. Operation of each major section of the machine
2. Maintenance instructions
3. Suggestions for future improvements
4. Performance data

Examples of manuals from previous classes can be seen at:

<http://enr.walla.walla.edu/enr480/reports>