Experiences in Continuous Improvement of "Computer-Aided Manufacturing Systems"

Dr. Richard Jerz

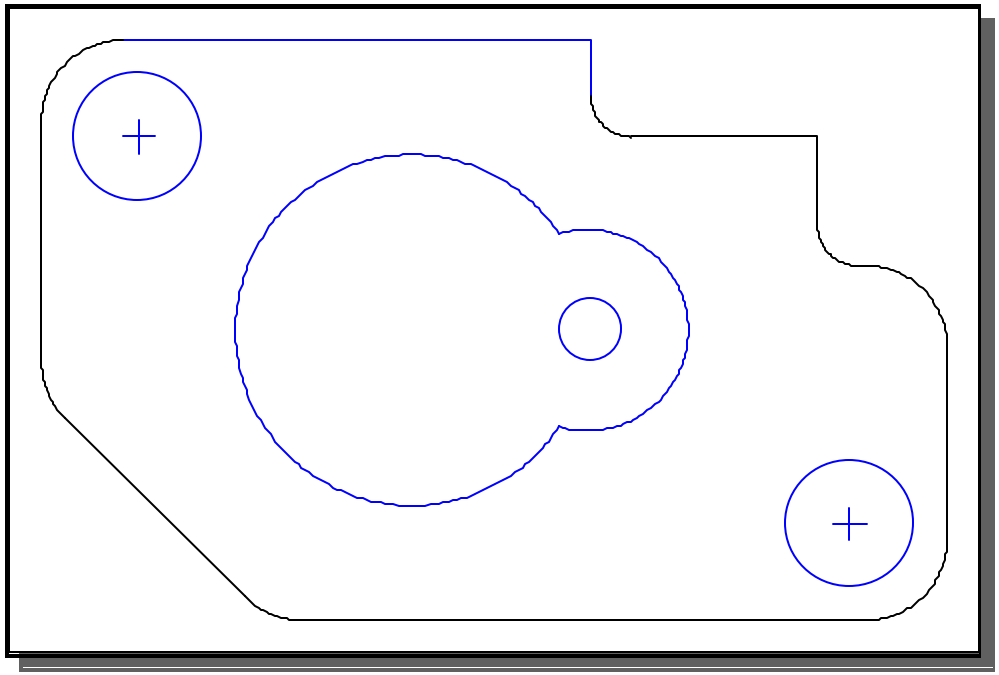
Course Objectives and Development

- Survey and use technologies
- Productivity
- Quality
- Cost effective strategy
- Integration

Lab Assignments

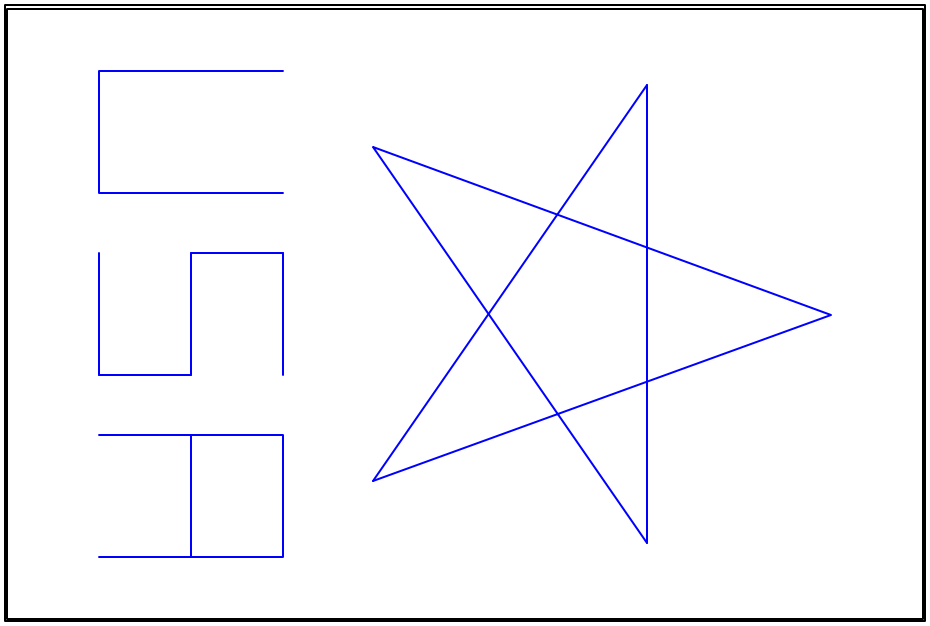
- Computers and operating systems
- Computer-aided design
- Robot fundamentals and programming
- Process planning & NC coding
- Simulation and CAM programming
- Part design and CNC machine

CAD Drawing

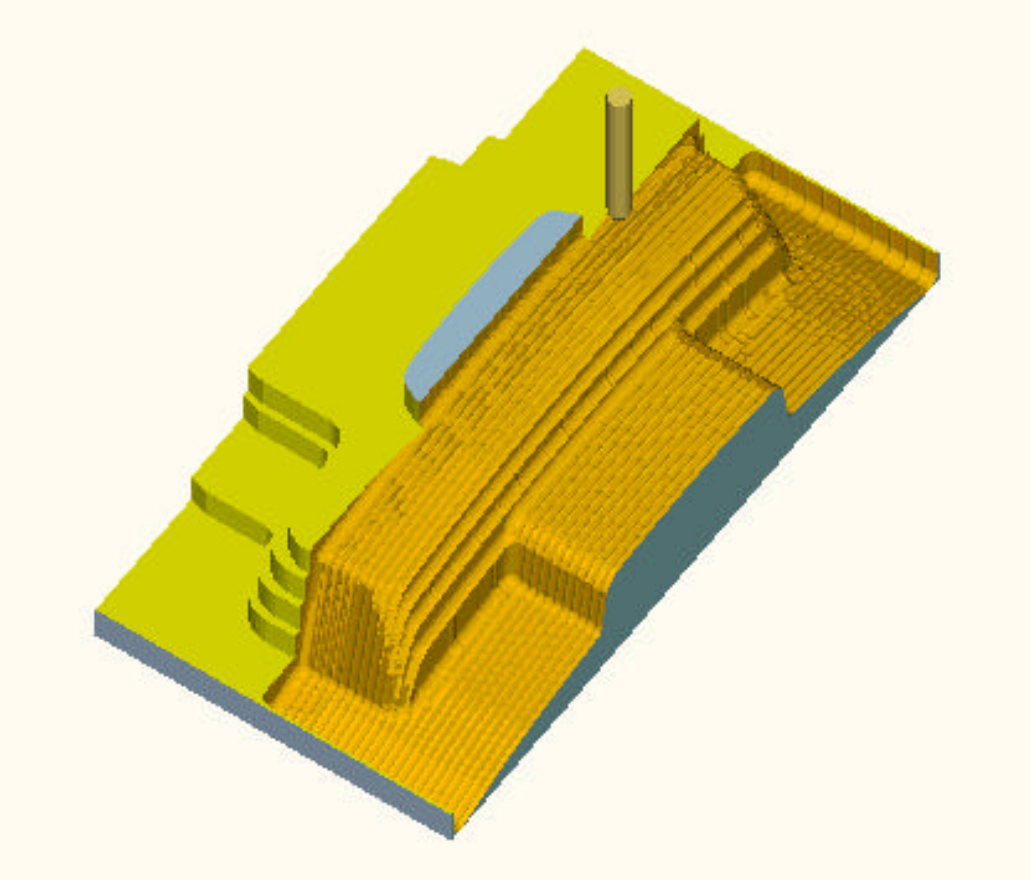


Microbot TeachMover Robot

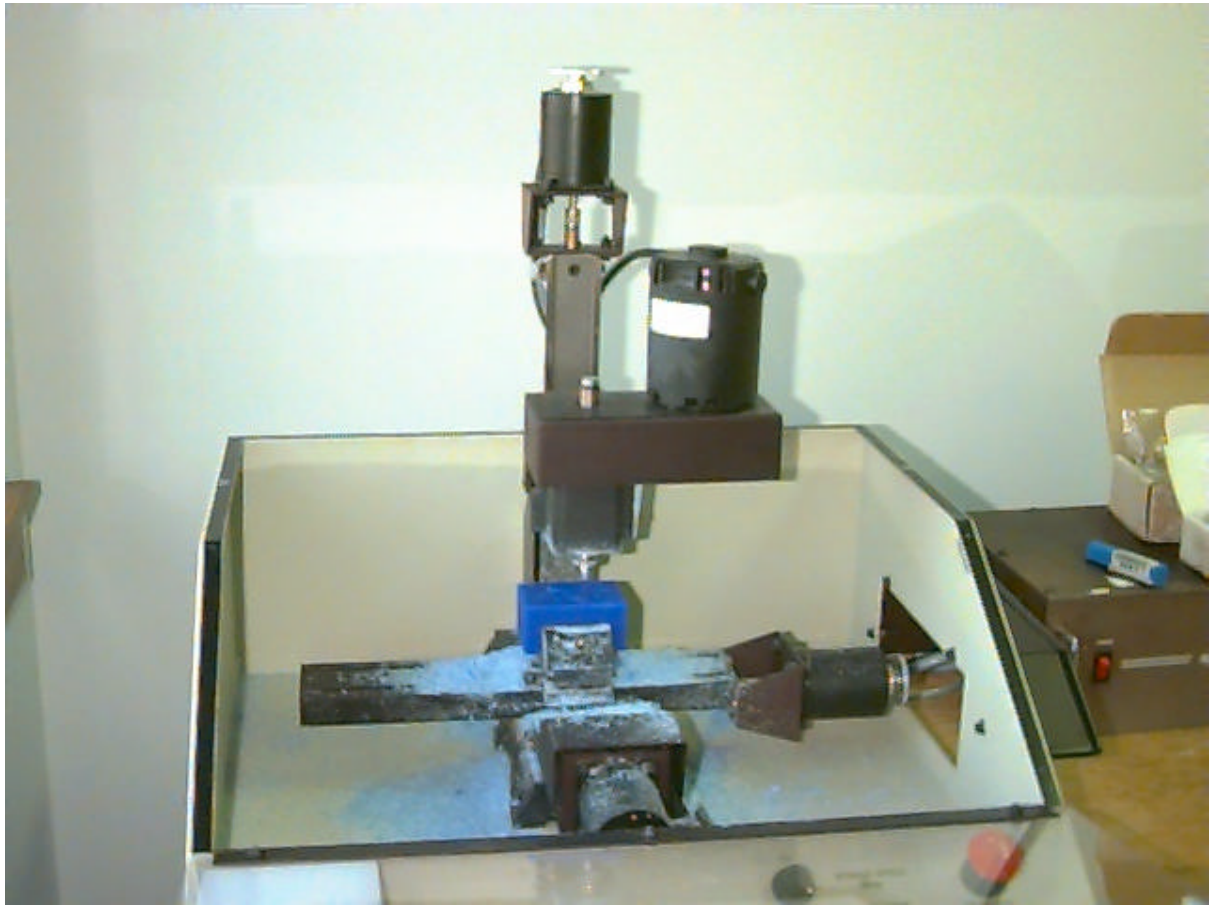
NC Coding



CNC Simulation



CNC Milling Machine



Continuous Improvements

- Technology always changing
- New hardware
- New software
- Internal funding
- External funding
  - SME

Observations

- Course reviews positive
- Writing intensive
- Lab intensive
- Company tour enjoyed

Future Development

- Writing intensive course
- Need new hardware & software
- Need good textbook
- Need other equipment & experienced
- 3D Solids modeling
- Integration with other courses