A High Pressure Microfluidic Valve for Control of an Endoscopic Surgical Platform
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NNIN Facility utilized: Nanofabrication Center

- Development of a high pressure valve
  - Designed for fluid pressure of 100 PSI
  - Scaled for a flow rate of 0.63 liters/hour
  - Biocompatibility must be considered
  - Precision controllability is required

- Future Work
  - Fabrication process optimization
  - Evaluation of various valve designs
  - Testing of valve performance characteristics
  - Valve packaging design and implementation