

# The O.T. Swanson Multidisciplinary Design Lab (MDL)

**A leading world class engineering design program,  
acclaimed for  
producing exceptionally resourceful graduates,  
who are driven to achieve technical excellence  
and innovation .**

## Product Development

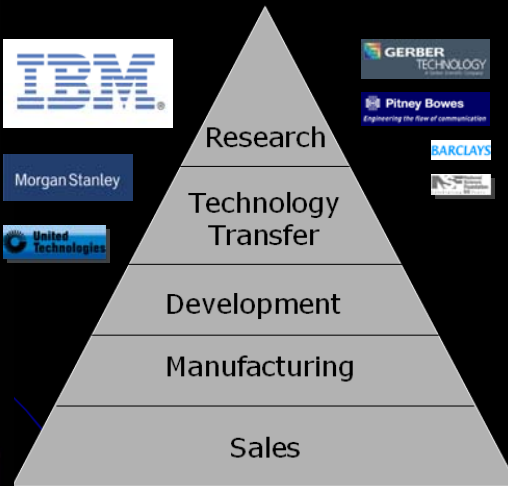
- Saturn Ion Gen-Y package (GM)
- Bidirectional Key Fob (GM)
- Vein harvest tool (Converge Medical)



Morgan Stanley

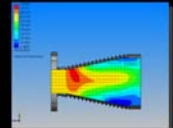


**Pick a problem,  
any problem!**



## Design of Experiment and Apparatus for Experimentation

- Turbine efficiency (GE Power Systems)
- Magneto-restriction (Lockheed Martin)



## Manufacturing Process Improvement

- Strippable Cork (Mr. Boudreau)
- Movable Commode (Qua Inc.)
- Paper Making Porous Media Process Improvement (Albany International)
- Fabric inspection system (Albany International)



## Advanced Development

- RF Transmission Amplifier Linearization (Harris)
- Magnetic filter (Lockheed Martin)
- Aeroprobe Field Test Unit (GE)



## Resources

- Our showcase facility
  - 6000 sq ft conference area
  - 8000 sq ft shop area
  - Haas Technical Center
- Web-based collaboration tools
- Professional support staff
  - Business Manager
  - Purchasing Manager
  - Shop Manager
- Multidisciplinary team of faculty
- Bright enthusiastic students
- University environment
  - Sister Laboratories
  - Affiliated centers



## Opportunities for Business

- Solve a complex technically challenging problem that will add value.
- A safe way to evaluate ideas with minimum risk.
- Stimulate new and creative thinking.
- Work with some of the world's best and brightest engineering students & their faculty.
- Meet and get acquainted with potential future employees.
- Leverage NYSTAR matching funds through the CATS

## MDL/CATS Collaboration

- Center for Automation Technologies and Systems.
- MDL gains additional resources and experience from a research center.
- CATS leverages an established educational program to train students and provide benefits to companies in New York State.