IPPD

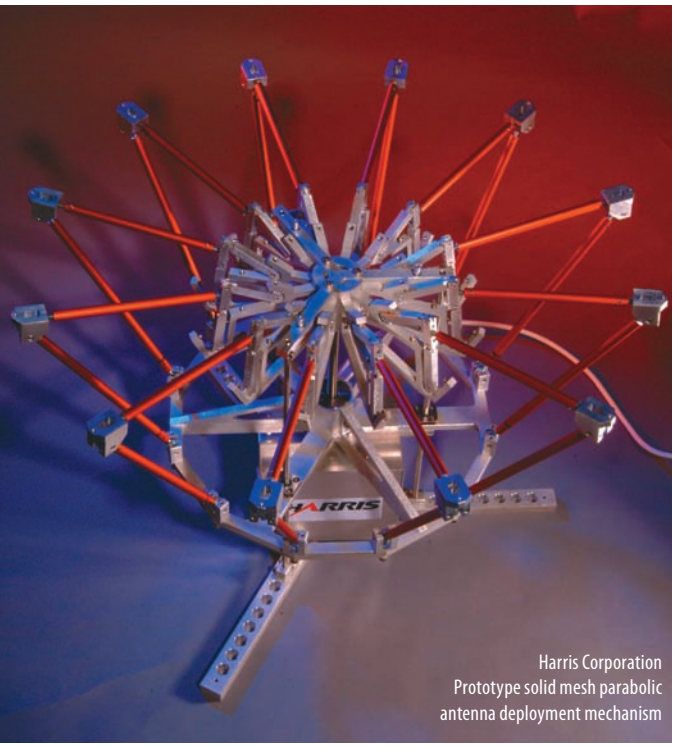
The Integrated Product & Process Design

program is an innovative educational initiative at the College of Engineering, University of Florida. Over two semesters, (eight months), in weekly classes, we teach students from various engineering and business disciplines how to design products and processes. Then, working in small multidisciplinary teams under the guidance of faculty coaches and industrial liaison engineers, our students design and build authentic industrial products.

The university of florida integrated product & design program

Provides solutions to your important design projects. IPPD utilizes development methodologies proven over fourteen years with more than 1900 students participating in 339 faculty-coached undergraduate design teams. The program provides classroom and laboratory experiences that show:

- How fundamental engineering science is relevant to effective product and process design
- That design involves not just product function but also productivity, cost, schedule, reliability, quality, customer preferences and life cycle issues
- How to complete projects on time and within budget
- That engineering is a multidisciplinary effort



Harris Corporation
Prototype solid mesh parabolic antenna deployment mechanism

Photos by David Blankenship

practical maturity

Working in multidisciplinary teams of four to seven, students get important practical experience in teamwork, and in developing thier leadership, management, communication, and people skills.

best practices provide key advantages

Advantages of integrating product and process design are well recognized by industry. Concurrent design of products and processes improves product costs and quality and reduces time-to-market. Students who have worked on real-life projects and know how to work in teams are more valuable as employees. They also recognize the importance of communication among different engineering and business disciplines.

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benefits

Industry participation offers benefits such as:

- An opportunity to influence the education of potential employees
- Completion of an important project for your company by a multidisciplinary faculty-coached student design team at very competitive costs
- Provides your company valuable interaction with faculty who have interest and expertise in technical areas of your business
- Gain visibility with our students and be able to identify and recruit the best graduates

you are invited

We invite you to join us and realize the many benefits of our Integrated Product and Process Design program. We are seeking industrial projects, your interaction with student teams, and an educational grant to cover the costs anticipated with the project.

scope and costs

Each project is scoped at 600 to 800 student engineering hours. Sponsor companies pay $20,000 per project and provide access to a liaison engineer for several hours a week. Industry funding is leveraged by funding from the State of Florida.

intellectual property and other issues

Sponsor companies own the design but agree not to hold students or the University responsible for the final success of the project or any product liability. Unless specifically requested by the sponsor company, students will be allowed to discuss and display the project. If required, we will sign a non-disclosure agreement.

join us

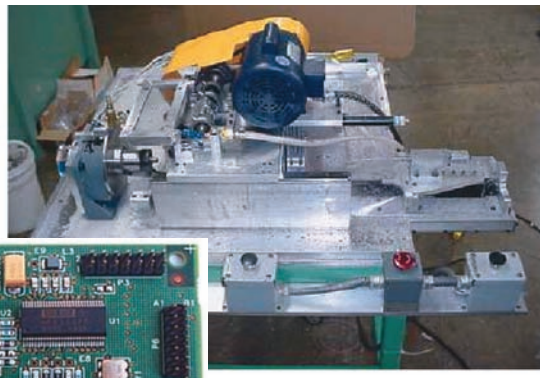
Please contact us to discuss the definition of an appropriate project. We would be delighted to visit your facility for a planning meeting.

project selection considerations

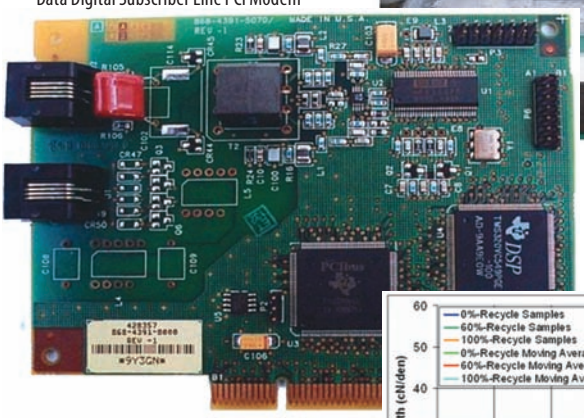
Projects may include, but are not limited to, the design (or redesign) and manufacture of a new or derivative product, manufacturing process, test apparatus, chemical process, or software system, including consideration of the following:

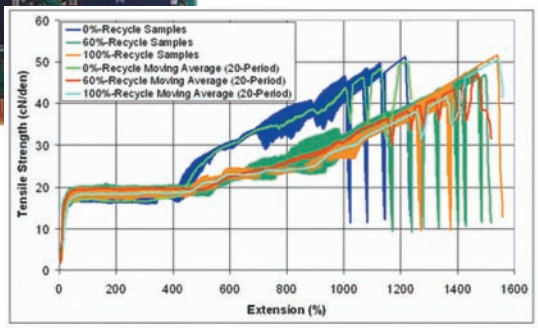
- Design of associated manufacturing processes and facility layout
- Redesign for cost, quality, performance, productivity, automation, etc.
- Physical prototyping
- Modeling, simulation and analytical prototyping
- Firmware
- Software requirements specifications
- Business case

Bear Archery Broadhead Slotting Machine, Winner of the 2001 ASME Manufacturing Division Student Design Competition



Paradyne 768k Baud Simultaneous Voice and Data Digital Subscriber Line PCI Modem





PGI Optimal Fibers for Non-woven Tissues

for more information

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