

A dark, weathered wooden door with three padlocks and a handle. The door is the central focus of the image, with a vertical crease down the middle. The wood is dark and shows signs of age and wear. Three padlocks are attached to the door: one at the top, one in the middle, and one at the bottom. A handle is visible in the middle section. The overall mood is mysterious and locked.

**Unlocking
the mysteries...**

**of new
product
development**



PCDworks
product • concept • development • • •

PCBworks - Your partner in breakthrough product innovation



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OPENING THE DOOR TO BREAKTHROUGH PRODUCT INNOVATION

No one expects to find a leader in breakthrough product innovation tucked away in the piney woods of East Texas.

But don't let the quiet, serene setting fool you.

Industry leaders from around the world come to PCDworks to solve their most difficult technology development problems.

PCDworks 25-acre campus offers unparalleled research, ideation, science, engineering, prototyping and testing capabilities.

We take on your toughest problems and deliver innovative solutions.

You have to step out of your box.

After all, if you want out of the box thinking...

SCIENCE

Designing a truly breakthrough product often means pushing the limits of scientific possibilities.

PCDworks is immersed in applied scientific discovery and experimentation, and offers significant capabilities in terms of laboratory facilities and personnel.

Our experience spans a variety of industries and scientific disciplines, including:

- Medical and Biological
- Electromagnetics
- Microwave and Terahertz
- MEMS
- LASER and Optics
- Advanced Materials



Guest House

ENGINEERING

Breakthrough product development requires high quality engineering services.

Our on-site facilities include extensive mechanical, electrical and optical engineering capabilities and a full range of services.

Electronic Design

- Analog
- Digital
- Mixed Signal
- RF
- Microwave
- Mesh Networks
- FPGA
- ASICS

COMSOL™ Multi-Physics Modeling

- Heat Transfer
- CFD
- Electromagnetics
- Stress and Strain
- Vibrational Analysis

Material Science

- Metals
- Advance Composites
- Elastomers
- Engineering plastics
- Ceramics

PROTOTYPING AND TESTING

As PCDworks founder Mike Rainone always says: "Get Physical Fast!"

Our on-site prototyping and testing facilities mean we can quickly test and confirm design ideas and hypothesis in a laboratory environment.

With 15,000 sq. ft. of laboratory and testing facilities, and an extraordinary team of product design experts, PCDworks can create a physical manifestation of nearly any product you can dream up.

Whatever your needs, PCDworks provides rapid proof-of-concept and allows you to go from simple concept to functioning prototype in record time!

IDEATION

PCDworks delivers a focused and rigorous ideation process with proven results.

Our unique and highly successful brainstorming sessions incorporate:

- Intensive research
- High level experts from a variety of disciplines
- Customized exercises to defeat mental roadblocks
- Rapid concept testing regime from calculations to multiphysics modeling



TECHNOLOGY

Combining emerging technologies with existing problems can be the key that unlocks the door to the next breakthrough new product.

PCDworks meets your needs with:

- Unparalleled technology database
- Personalized research services
- Deep experience over a broad range of industries

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