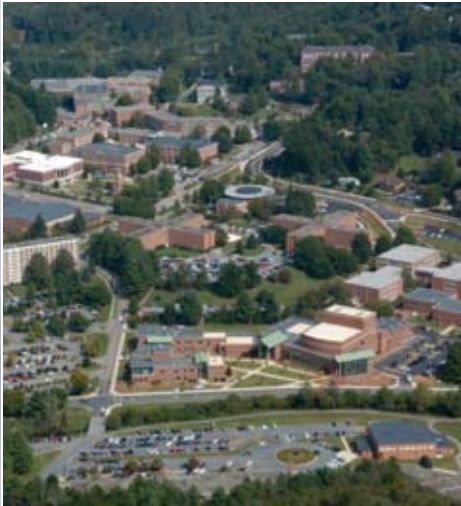


engage
innovate
transform

THE CENTER FOR
rapid
PRODUCT REALIZATION
WESTERN CAROLINA UNIVERSITY



CAPABILITIES...

WORK WITH EXPERTS

Faculty with Industry Experience
Dedicated Engineering Staff
Student Teams

GET EXCELLENT RESULTS

Rapid prototypes in ABS, UV Resins, PE; white blue or clear colors;
features as small as 16 microns
Laser Precision Machining with submicron accuracy
CNC and Manual Machining
Part Verification
Reverse Engineering
Patents and Technology Transfer

PAVE AN EFFICIENT DEVELOPMENT PATH

Match RP Method to Requirements ... *Maximize Value*
Evaluate Form, Fit, Function ... *Fast, Low-cost Visualization*
Get Early Feedback ... *Avoid Risky, Up-front Tooling Costs*
Field-test Functional Prototypes ... *Prevent Costly Mistakes*
Verify Specifications ... *Contact or Noncontact Metrology*
Debug Handling/Production Lines ... *Be Prepared for Product Arrival*
Optimize Manufacturing ... *Expert Consultation*
Secure Intellectual Property ... *Patents and Technology Transfer*

PROGRAMS...

OPTOELECTRONIC SYSTEMS

Prototyping
Analyzing polarization
Measuring the spectral characteristics
Testing the bit error ratio
Collaboration with Carolina
MicroOptics Triangle

CONCEPT TO MANUFACTURING

3D design, prototyping and testing
Creating functional prototypes
in hours
Verifying product specifications
Reverse engineering
Scaling to automated production

ADAPTIVE TECHNOLOGIES

Solving challenges of "aging
in place"
Improving productivity for persons
with disabilities
Enhancing the learning environment
for children with disabilities
Received award for contribution
in creating 30 jobs for persons
with disabilities

INTELLIGENT SENSOR SYSTEMS

Monitoring air quality
Underwater exploration via
the internet
Autonomous pods to measure
temperature and humidity in streams
Sensor systems with ultra wideband
connectivity for tracking & guiding



We foster innovation and collaboration.
We welcome hearing from you, even if your
application doesn't fit a current program area.

Our goal is to create economic transformation
and engaged learning.



THE CENTER FOR
rapid
PRODUCT REALIZATION
RAPID.WCU.EDU

CONTACT: Dr. Phillip A. Sanger *Center Director*
The Kimmel School | Western Carolina University
164 Belk Building | Cullowhee, NC 28723
tel: (828) 227-7368 | fax: (828) 227-7838 | email: sanger@wcu.edu

WESTERN
CAROLINA UNIVERSITY
A University of North Carolina campus



Western Carolina University is a University of North Carolina campus and an Equal Opportunity Institution. 1,000 copies of this public document were printed at a cost of \$000.00, or \$0.00 per copy. Office of Public Relations/Publications. April 2007 07-124



ADVANTAGEWEST
NORTH CAROLINA