Broadening ATE Impact through Communities of Practice
ATE PI Conference
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Made possible through a grant from the National Science Foundation DUE 1205138
Educational CoP

“Newbies”
Activities Support CoP’s

Since 2012
- 40+ Workshops
- Webinars
- Cleanroom Experience for Teachers
- UA MEMS Design Competition
- PS Workshop, Cleanroom “Art Wafer”
- MNT Conferences
- HI TEC Conference
- ATMAE Conferences...
Micro Nano Tech Community

Conference started 2011 at SCME
2012 – NACK – Penn State
2013 – Nano-Link – DCCC
2014 – SCME – UNM
2015 – SHINE – NSC
Supporting CoP with Educational Materials

150+ Shareable Content Objects (SCOs)
- Informational Units / lessons
- Supporting activities
- Supporting assessments

- 40+ Learning Modules
  - Safety
  - Microsystems Introduction
  - Microsystems Applications
  - Bio MEMS
  - Microsystems Fabrication

- 11 Instructional Kits

- All are available @ scme-nm.org

YouTube Channel – 50+ videos
Hands-online Workshop Series
Online “MOOC-lets”
GoTo Mentoring Meetings
Industry Community

Honeywell

3D Glass Solutions

HP

Sandia National Laboratories

3D

htmicro

Texas Instruments

MANCEF

Micro and Nanotechnology Commercialization Education Foundation

Mannex

Diagnostic Biosensors

Freescale

CAGENT VASCULAR

Nano Network of New Mexico

MEMS Industry Group

Albuquerque Economic Development
New Mexico

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Supply Chain Position
Creator
Website
http://www.htmicro.com/

Now Hiring - learn more

ULTRA SMALL | ULTRA RELIABLE

We do MEMS with Metal!

About Us
HT Micro is a leading manufacturer of ultra miniature switches, sensors, and precision components serving both the commercial and military markets. Started in 2003 as a prototype operation, the Company has grown into a leader of manufacturing packaged devices and precision mechanisms. In 2013 HT built a state of the art high volume, production manufacturing fab that specializes in metal based devices. HT’s technology can be found in a variety of applications ranging from the transmission of high frequency mobile wireless data, to sensing motion without contact, to analyzing g-force signatures.

Technology
We do “MEMS with Metal”. HT’s technology platform integrates traditional integrated circuit and precision machining processes into a micro fabricated manufacturing methodology called high aspect ratio manufacturing (HARM). The manufacturing process employs unique materials and molding approaches to design structures which transform traditional electronic products. Devices are produced on wafers with parallel (batch) processing, which ensures high volume and quality. The applications for HT’s products range from medical devices, munitions fusing applications, and mobile technology infrastructure. HT’s processes provide the ability to maintain tolerances at small dimensions with engineered materials that are reliable in extreme environments.

Products
HT’s core product offering consists of inertial and magnetic switches and precision connectors. Each of HT’s products has revolutionized existing devices by reducing their form factor by at least 10 times. All products are batch microfabricated using metal instead of semiconductor materials. HT uses such metals, to form ultra high aspect ratio features within integrated hermetic packages, to provide high reliability operation of a number of microelectromechanical devices even within harsh sensing environments. All of HT’s products share a similar vision of miniaturization of existing technologies without compromising functional reliability or precision.

Learn More
Learn More
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Questions?

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Find me on LinkedIn too!