

Lemelson ILLINOIS

STUDENT PRIZE

Finalist 2009

ROBERT SHEPHERD

*Graduate Student
Materials Science &
Engineering
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Robert is currently working on creating a standard, less complicated, more flexible micro electrical-mechanical systems (MEMS) fabrication route which can generate these parts at rates of 100's per second using low cost material feed stock. The market for MEMS is emergent and large; with devices encompassing microphones, implantable drug delivery systems, accelerometers, and lenses. These systems are currently used in products such as the iPhone, Nintendo Wii, and vehicle air bags.



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