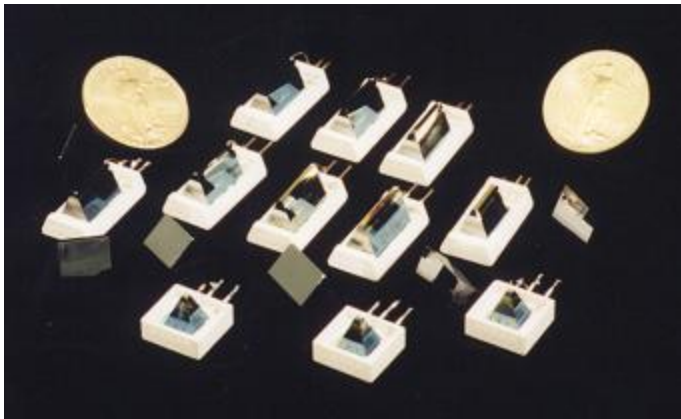


UM Thrust Areas

- Radiation Sensing and Imaging
 - Develop novel radiation sensors and integration into imagers
- Novel mobility concepts
 - Mobile platforms for unstructured environments
- Real-time mobile navigation
 - Integrated sensors and algorithms enabling real-time semi-autonomous movement through unprepared environments

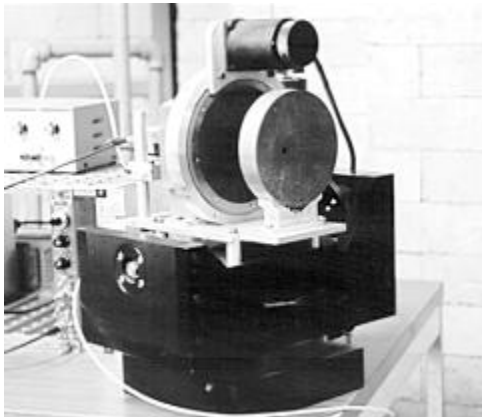
UM: Radiation Sensing and Imaging



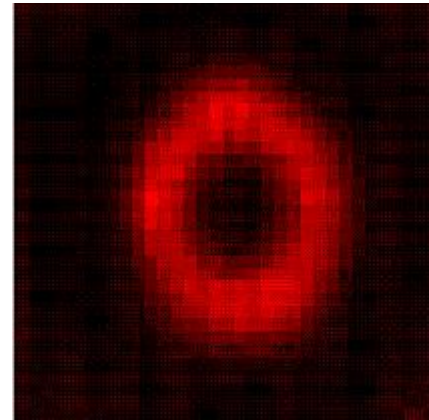
Semiconductor Detectors



Detector Fab Lab

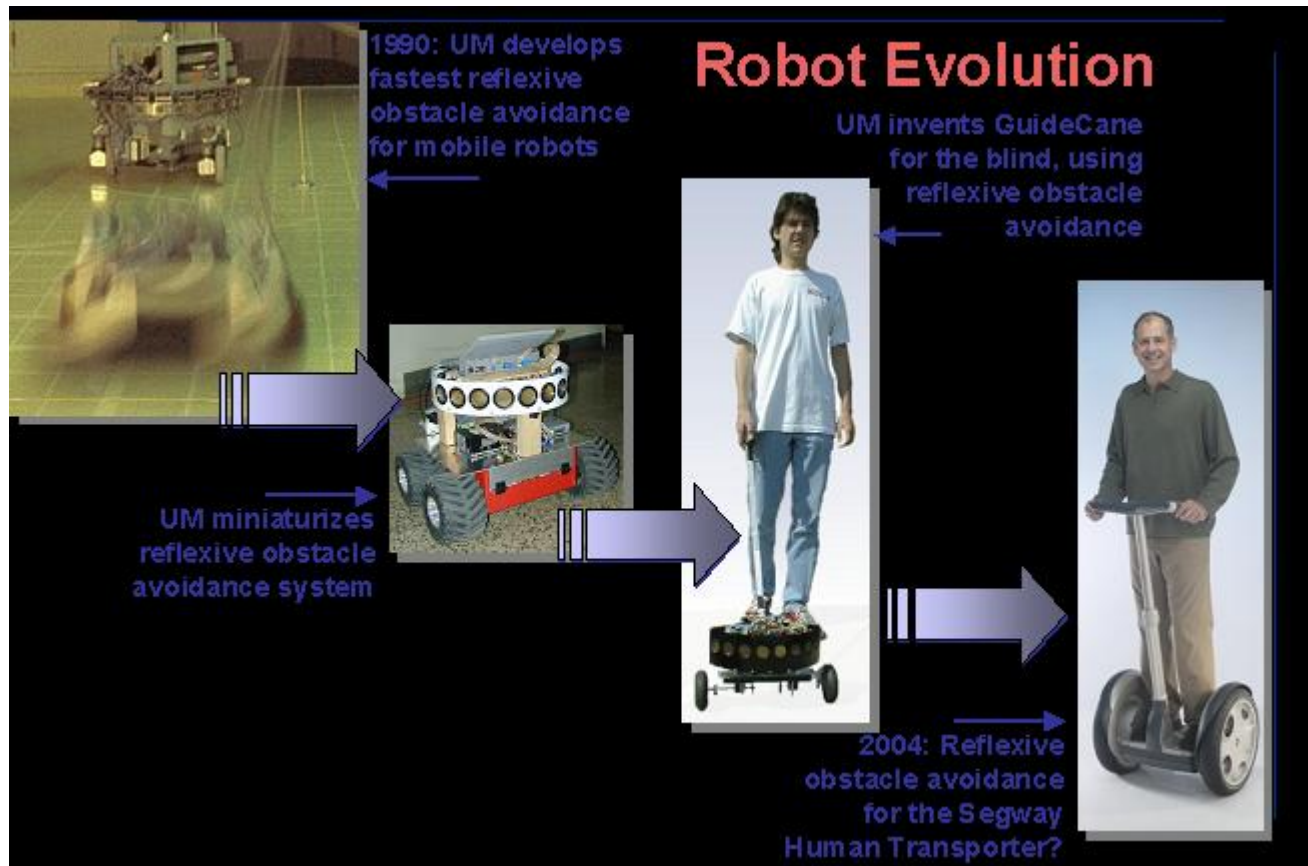


CSPD-2 Imager



Radiation Image

UM: Enhancing Mobile Platform Utility



Why needed?



President Bush falling off Segway

UM: Mobile Platform Rad Sensing

- Pioneer AT mobile platform with obstacle avoidance and odometry
- Capable of semi-autonomous, untethered operation.
- Coded-mask, high-efficiency radiation imaging camera produces pictures of radiation environment to localize and characterize radiation sources.
- Research performed by URPR and prototype engineered under DOE SBIR by RMD, Inc.
- Applicable to all DOE sites.

