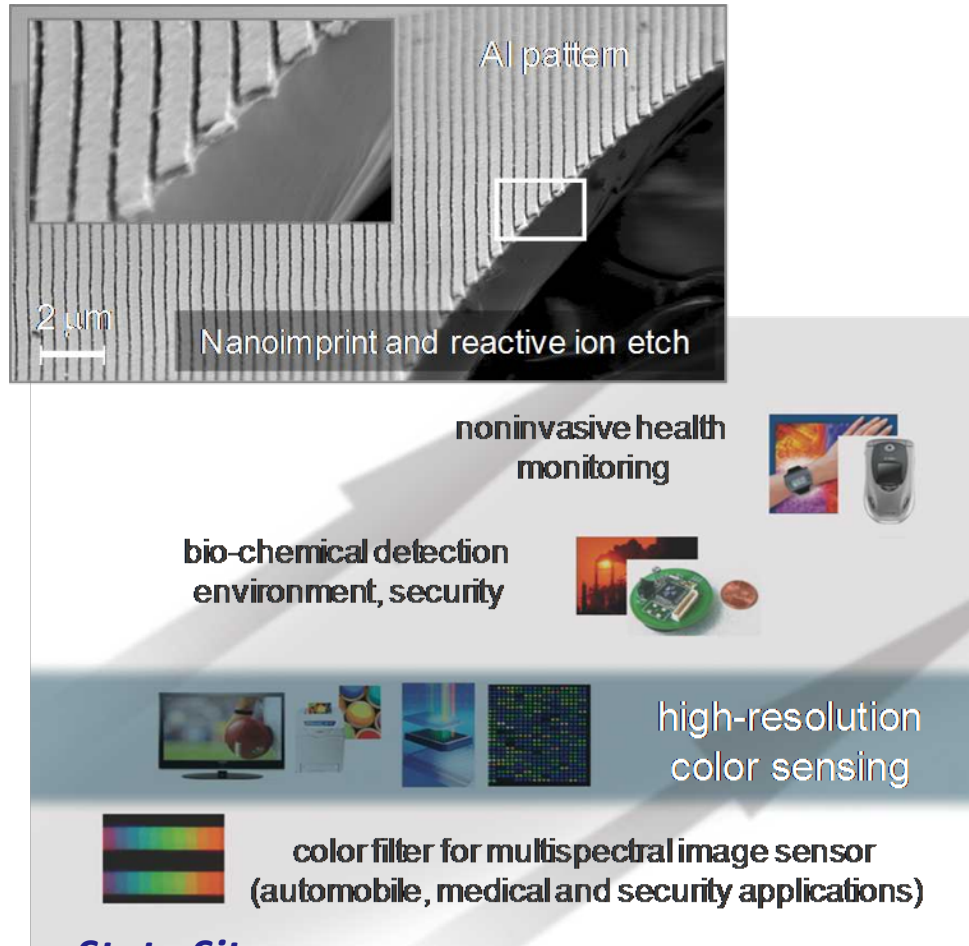


Spectrum Sensor™ Chip by Nanoimprinting

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- Nanolambda is developing the Spectrum Sensor™ chip, an ultra compact spectrometer-on-a-chip, using a cost effective and high throughput nanoimprint lithography and Al etch process.
- Initial prototypes fabricated at the Penn State NNIN site have yielded 80 nm aluminum gaps. Continued process development is aimed at achieving highly reproducible sub-30nm gaps.
- This spectrometer-on-a-chip will be used for non-invasive health monitoring, biochemical detection, and high resolution color sensing.

Penn State Site

Nanoimprinting is a low cost, mass production process technology suitable for fabricating plasmonic devices.