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<tr>
<td><strong>Author(s)</strong></td>
<td>Xu, Cong</td>
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<td>Xu, C. (2008, March). Development of micro-lens array for indoor optical wireless communication. Presented at Discover URECA @ NTU poster exhibition and competition, Nanyang Technological University, Singapore.</td>
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Development of Micro-Lens Array
For Indoor Optical Wireless Communication

Introduction:
Modulated white light LEDs can be used for simultaneous illumination and communication. This project is to develop a micro-lens array for receiving white light LED signals in indoor optical wireless communication system.

Design:
Material: PDMS
Element: Singlet
Distribution: Square Array (5 X 5)
Size: <1cm²
Thickness: <500 µm

Fabrication:

Application:
Besides indoor wireless communication, micro-lens array’ application also includes:
- Optical interconnects
- Imaging, micro-displays
- Flat panel displays
- Beam shaping
- More…