# Lee Ervin's challenge details for challenge: Solar

## Prize Round 6

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### **Explanation**

I am a garage inventor and have invented a thermovoltaic engine that can convert heat into mechanical or electrical energy. Foremost, I need guidance to research and develop my idea beyond computer models. The device is nanotech and can be fabricated using MEMS technology. There are a variety of simple experiments that can demonstrate the device prior to fabrication.

I currently have three patents on the device and I am looking for suggestions and direction to bring it into production . Specific needs that I have already identified :

- 1) Peer-review of the physics behind my invention .
- 2) A lab capable of fabricating and evaluating a device at the sub-millimeter scale.
- 3) Contact with a MEMS fabricator for small-scale prototyping

### **Key Needs**

- Procurement of Raw Materials (2 / 5): No explanation
- Manufacturing (4 / 5): No explanation
- Product Design (3 / 5): No explanation
- Fabrication & Prototyping (5 / 5): No explanation
- Business Development & Commercialization (2 / 5): No explanation
- Strategy (2 / 5): No explanation
- Testing and Validation (5 / 5): No explanation
- Product Development (3 / 5): No explanation
- Utility Scale (2 / 5): No explanation
- Science, Research and Development (5 / 5): No explanation
- Technical Analysis (3 / 5): No explanation
- Funding & Investments (3 / 5): No explanation
- Hardware Development (4 / 5): No explanation
- System Design (3 / 5): No explanation
- Software Development (1 / 5): No explanation
- Marketing & Promotion (2 / 5): No explanation
- Robotics (1 / 5): No explanation
- Legal, Insurance, and Public Policy (2 / 5): No explanation

#### Matches

- <sup>1.</sup> <u>IoT Conduit</u>: 90.44%
- 2. Solar Inventions: 90.27%
- <sup>3.</sup> <u>Membrane Development Specialists</u>: 89.69%
- <sup>4.</sup> Georgia Institute of Technology: 89.59%
- 5. PlachSoft Technologies Inc. 90 50%

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- 6. <u>Circuit Launch</u>: 89.36%
- 7. Positive Deviancy: 89.12%
- 8. <u>Swift Coat Inc</u>: 88.93%
- 9. <u>GoSun</u>: 88.83%
- 10. University of North Dakota Energy and Environmental Research Center (EERC): 88.73%