

Nexas Networks Inc.

Industrial Light & Magic

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NGen Next Generation
Manufacturing Canada

Company overview

- Nexas Networks was founded in 2010 with a mandate to internetwork factories to the world. Using embedded hardware & software systems, today we focus on the machine tool world and have unique IoT solutions for machine communication.
- Nexas is proposing a Industrial Light & Magic Division be set up to manage a custom LED outdoor lighting project for the Niagara Falls OPG Winter Festival of Lights. A custom machine leveraging 3D printing, forming, welding, electronics and robotics would be made to highlight a true Industrial 4.0 flexible manufacturing system. It would be the first such machine in the world and transform this industry.
- Nexas has in-house talent and developmental partners ready to create this hydra machine that will make a display – from CAD drawing to finished product – with a special plug 'n play CNC technology leveraging our unique Dynamic Computer Aided Manufacturing (DCAM) and Algorithmic Manufacturing (AM) technologies.

PROJECT DESCRIPTION:

The Niagara Falls OPG Winter Festival of Lights but needs a local company to supply LED-based outdoor lighting exhibits on demand for the next 10 years. Currently the Festival has 8 km of exhibits, that are seen by 1.8M people and generate over \$98 million in local economy revenue. They need a custom machine to help rapidly create their exhibits on demand using Industry 4.0 techniques. The Festival stakeholders also need analytics that can be used to calculate effectiveness and track viewers.

PROJECT
DURATION:

18 months

STARTING
MRL LEVEL:

4

PROJECT OBJECTIVES:

- Create a special large format 20'x12' hydra machine tool with 3D printing, CNC machining, wire forming, electronic pick 'n place, welding & robotics integration to make LED exhibits on demand;
- Develop CAD design software to take drawings & generate the GCODE to make it on our system;
- Develop wireless mobile apps to track on cloud servers the views & enable exhibit interactivity;
- Scale the operation from a service depot for a large client to a machine tool builder for the world.

ENDING
MRL LEVEL:

8

OUR EXPERTISE AND ROLE IN THE PROJECT:

- Electronics Design & Manufacturing
- Embedded System Programming, PLC & CNC Motion Control
- IIoT & Wireless
- 3D Design CAD Design & Project Management

EXPERTISE WE ARE SEEKING:

- CAD & Mobile App Development
- Cloud Analytics & AI
- Funding, Client Relations & Business Development to the World

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