

Teknistas Inventing Lab: LED Circuit Crafts October - November 2015

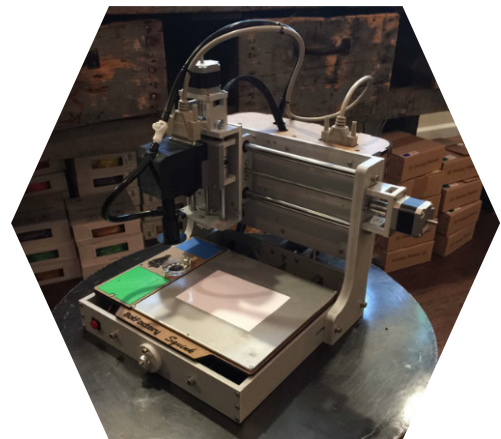


For girls 10-12. Are you an experienced crafter? Would you like to add LEDs to your projects?

We invite you to apply for a spot on the Teknistas product design team.

Twelve girls will pool their skills and knowledge over five weeks to

- Design **wearable technology** for clothes, dolls, and Halloween costumes
- Create **glowing duct tape crafts** with LEDs & paper thin batteries
- Operate **a Squink robot & a vinyl cutter** to make LED circuits with conductive ink & tape
- Compare digital and traditional manufacturing methods by taking a **factory tour**




STEM concepts:

- ✓ Simple circuits; series & parallel; conductors & insulators
- ✓ Cartesian grid; X-Y axis; number line; positive & negative numbers)
- ✓ Engineering process vs. scientific method; digital & traditional manufacturing

Expert female instructors will teach electronics & product design to a team of girls who

- have already developed some crafting skills
- have a strong creative streak
- are willing to try again when they don't get it right the first time
- are interested in combining technology with crafting

<p><u>Location:</u></p> <p>Play Moore Studio 107 E Front St, Wheaton, IL 60187</p> 	<p>Teknistas Inventing Lab: LED Circuit Crafts October - November 2015</p> <p><u>Dates:</u></p> <p><u>Studio Sessions</u> Wednesdays 4:30PM-6:30PM October 7 - November 4</p> <p><u>Maker Madness Session</u> Monday (Columbus Day) 10:00AM – 4:00PM October 12</p> <p>Family members are welcome to participate in the manufacturing tour on October 12 and the Halloween party on October 28.</p>	
<p>Regular Tuition: \$330 Early Bird Tuition: \$280</p>	<p>Tuition is \$22/hour for 15 hours of instruction including the Maker Madness sessions.</p>	
<p>Lab Fee: \$100</p>	<p>Lab fee covers in-class consumables; weekly snacks; and materials for electronic craft projects</p>	
<p>Drop off your completed application at Moore Toys & Gadgets</p> <p style="text-align: center;">or</p> <p>Email it to info@workshop88.com with "Teknistas Inventing Lab in the subject line.</p>	<p>Early Bird Deadline Monday, September 21</p> <p>Early Bird applicants will be considered first and notified by September 23.</p>	<p>Regular Deadline Monday, September 28</p> <p>Admissions notifications will be issued by September 30.</p>



The LED Product Design program was developed by Workshop 88, a makerspace in Glen Ellyn, IL, with support from Cognizant's Making the Future program. Workshop 88 Member Rachel Hellenga will be the Lead Instructor.

Rachel has a B.A. in psychology from Harvard University and served as the Creative Director for Science Storms, a \$30 million physics exhibition at the Museum of Science and Industry.



Cognizant

This program is made possible by Cognizant's Making the Future program

Teknistas Inventing Lab: LED Circuit Crafts Application Form

Child's Name	
Child's Age	
Parent or Guardian e-mail	
Parent or Guardian phone	

Welcome, Teknista applicant! Please answer these questions so we can get to know you. Handwritten answers are fine. Just take a picture when you're done and e-mail it to info@workshop88 with some pictures of your craft projects.

Tell us about an original craft project involving duct tape, felt, paper crafts, or fabric. How did you put your own spin on the project? (Attach a project picture if you have one.)

Do you have any experience with circuits and LEDs outside of school? (We want a mix of girls who do and don't have experience with LEDs, so there is no right answer.)

No/Not sure _____	Yes ____ If yes, what types of toys, kits, camps, or activities?
-------------------	---

Tell us about a time you got stuck or overwhelmed during a project and kept going until you got to the other side of it.

What are some different ways you might use an LED and a switch and some duct tape to celebrate Halloween?

1.	3.
2.	4.

Please drop your application off at Moore Toys & Gadgets, 107 E. Front St., Wheaton, IL 60187 or take a picture of your completed form and e-mail it to info@workshop88.com by Monday, September 21 (Early Bird Admissions) or Monday, September 28 (Regular Admissions). If you have any questions about the program or the application, you can reach me at rachel@hellengaprojects.com or 312-593-0444.

We can't wait to hear from you! – Rachel Hellenga, Lead Instructor