


Let's Invent!

Step into Engineering and Computer Science

The Qualcomm® Thinkabit Lab™ [Learning Center](#) is a free online resource developed for adult instructors to help them get started on their journey to introduce students to the world of invention. Qualcomm welcomes educators, librarians, community members, and youth organization leaders to visit our easy-to-use center.

The Learning Center offers a variety of STEM education resources to help educators introduce students to coding and engineering. Activities range from learning how to wire and program a microcontroller to exploring future careers in technology.

WHAT YOU WILL FIND IN THE LEARNING CENTER:




Materials and where to purchase them



Step-by-step instructions for setting up a microcontroller and using a circuit board



Hands-on coding and engineering challenges



Step-by-step instructions for wiring and writing code

Get Started: Explore the Hardware Kit!

Visit the Learning Center to learn how to build your very own Hardware Kit. The Learning Center provides a downloadable guide that walks educators through all the hardware, software, and components needed to engage in engineering activities and help students begin building their own projects and inventions.



Ready to Invent Like an Engineer? Learn How to Code

After assembling the Learning Center Hardware Kit, it's time to put it to use by trying several hands-on coding and engineering challenges. With the coding activities available on The Learning Center, students will learn how to:

- Use an LED to send messages using Morse code
- Connect and write code to control multiple LEDs
- Wire a continuous or positional Servo motor and write code to control its motion
- Wire and write code to control a Servo and an LED at the same time



Career Exploration: Start Your Career Journey Today!

Qualcomm is a company of inventors comprising a global workforce that includes people with diverse skills, backgrounds, and cultures who are part of inventing the wireless world of the future. At the Learning Center, students can explore careers in STEM, discover what their interests are, and learn how they relate to the world of work. Access the Learning Center to start exploring the possibilities of a STEM future today.

Thinkabit Lab Program

Qualcomm is committed to a future where students from all cultural and socioeconomic backgrounds and geographic locations have the opportunity to learn about STEM and be captivated by the boundless possibilities it offers both as a passion and as a career path.

The Thinkabit Lab program provides students with highly engaging, hands-on learning experiences, opening their minds to the world of STEM careers. Thanks to partnerships with school districts, universities, non-profits, and others, Qualcomm is inspiring the next generation of inventors.



Qualcomm
thinkabit lab

Get Started Visit the Learning Center:
<https://thinkabitlab.com/learning-center>

Contact Information:
Send questions to contactthinkabitlab@qualcomm.com

Learn More:
www.thinkabitlab.com
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