

## **Techlab Personal Independent Project Program**

This program gives students of all ages the opportunity to explore topics in coding, design, and electronics, that inspire them with the support and encouragement of a Techlab or industry mentor. Research & project work is performed using Techlab's well equipped lab facilities, enabling your child to explore all ranges of topics from beginner to more sophisticated topics. Past research topics include :

- Personal e-commerce website or favorite mobile app
- IoT Coffee Maker
- Personalized Lighting for Own bedroom
- iRobot hacked (Science Fair)
- Project for High school robotics (Robotics)

Through authentic project research experiences and relevant background in Techlab classes, your child will learn the discipline and art of completing finished projects building on the core life skills for professional success. In particular they will learn:

- Performing background research for a personal project interest area
- Designing and researching to test ideas
- Collecting, analyzing and interpreting data
- Teaming with other Techlab peers/students
- Communicating results to a mentor or group of industry experts

Our objective is to have students participate in this program to go on to complete personal interest projects, participate in competitive Science Fairs, Hackathons, Robotics competitions, USACO (USA Computing Olympiad) or simply nurture a love or appreciation for how technology can make our life meaningful.

### **How the program works**

Through our project based program, your student will have the option to explore a wide variety of project topics while building their knowledge of techniques, project mgmt skills, research/engineering/coding techniques and subject matter expertise. For each project topic, they will be assisted by a tutor and paired with a mentor with experience in that field. After successful participation in several independent projects, students and

their parents may wish to pursue an individualized project program where they take an idea or topic of special interest and develop it into a Science Fair or Hackathon goal. The opportunity to pursue individualized project is available at the discretion of Techlab senior staff and will depend on the students demonstration of interest and capability during the project experiences. While conducting their independent project research, your student will also be trained in project management, analysis, documentation, budgeting, and project presentation.

[Contact Us to start an independent project.](#)