

# HACK-A-THON!

**BY EKAL YOUTH**

**PITTSBURGH CHAPTER**

**AND SHARP ROBOTICS**

**WHERE: ONLINE**

**WHEN: AUGUST 14, 2021**

**WHO: GRADES 5-12**

**COST: \$15 USD**



OS  
Data Science  
Design  
Programming  
Cyber Security

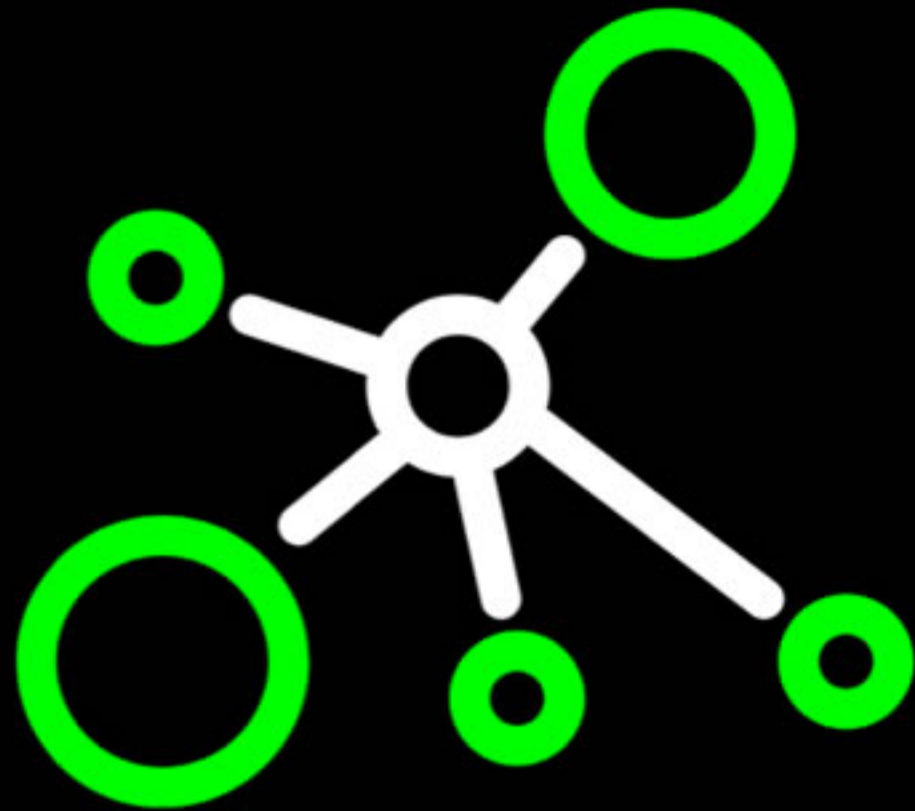
Free Workshops in Summer 2021  
in Preparation for Hackathon





# BASH

THE BOURNE-AGAIN SHELL



Operating System Challenge

## hackathon@ekal: ~ \$

BY EKAL Youth Pittsburgh Chapter and SHARP Robotics

When: June 21, 2021 on Google Meets  
[ekalhackathon@gmail.com](mailto:ekalhackathon@gmail.com)

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OS Shell Fundamentals  
Computer Networking  
Task Automation



# DATA SCIENCE WORKSHOP

**WHERE: ONLINE**

**WHEN: JUNE 28**

**WHO: GRADES 5-12**



- **COMPILE DATA USING GOOGLE SHEETS OR PYTHON**
- **LEARN THE CHARACTERISTICS OF GRAPHS AND TABLES**
- **CREATE VISUAL REPRESENTATIONS OF DATA**



# PROGRAMMING WORKSHOP

**BY EKAL YOUTH  
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**BLOCK CODING**



**WHERE: ONLINE**

**WHEN: JULY 5**

**WHO: GRADES 5-7**

**PYTHON**



**WHERE: ONLINE**

**WHEN: JULY 5**

**WHO: GRADES 8-12**



# CAD 3D DESIGN WORKSHOP

**BY EKAL YOUTH  
PITTSBURGH CHAPTER  
AND SHARP ROBOTICS**

**TINKER CAD**



**WHERE: ONLINE**

**WHEN: JUNE 14**

**WHO: GRADES 5-7**

**ONSHAPE**



**WHERE: ONLINE**

**WHEN: JUNE 14**

**WHO: GRADES 8-12**

