# Project #6: Building a HAT (Hardware Attached on Top)

**Idea:** Design and build open hardware attached on top of a Raspberry Pi for a specific application/purpose (get some inspiration e.g. from the Raspberry Pi projects books).

## Goals:

- Design and create hardware specification, build functioning hardware
- Learn about open hardware
- Learn about Raspberry Pi/Arduino ecosystem

Difficulty: Easy/Medium/Difficult/Research level

Subjects: open hardware, open software

### Deliverables:

- Hardware specification
- Software and/or drivers (e.g. on GitHub)
- Documentation

### **Requirements and costs:**

• Hardware, software, etc.

### Milestones:

- 1. Define specification/purpose/application
- 2. Design and build hardware
- 3. Write drivers/software and experiment with interesting applications

### Estimation:

### References:

Raspberry Pi Projects Book (<u>https://www.raspberrypi.org/magpi/issues/projects-1/</u>)



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