V1.0- Initial commit

V1.1- Updated Parts/Links

***Assembly Guide Overview***

*The EduCase is a fully functional classroom inside a portable case. It contains multiple computers (Raspberry Pi & Android) loaded with content, tutorials, tools and information which educators can use in any area of the world.*

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*The project is fully self contained and self-powered and also includes provisions for communication with the outside world using either cellular data or a dedicated portable satellite dish and receiver linked to the "Outernet" satellite data provider. It also houses it's own LCD display and utilizes an LED projector enabling the entire classroom to see the content.*

*The EduCase can be deployed to refugee camps, rural areas, developing nations or anywhere else around the world and used to provide content, communications, courses and material we take for granted in the western world.*

*The EduCase can also be deployed into disaster/relief zones and used for sharing news, communication or things as simple as an impromptu movie theater.*

# INTRODUCTION

## Basics

**This document is a work in progress and will be updated OFTEN. Thanks for your understanding!**

The EduCase will be able to deploy technical training, medical knowledge, communication, news, and content from all fields into any area of the world regardless of infrastructure.

## References

Parts Video:

<https://youtu.be/J0L335KiNEU>

isual and Audiong Display either the Lighthouse wifi hotspot or to the cellular network via the Android phoneng the volume avaContact

Support provided via the forum at <http://mkme.org> as well as the GIT repository.

https://github.com/MKme/EduCase-Portable-Classroom

Support for the libraries used to support the code is provided by the original authors only. Restrictions for use can be found on their respective support pages (linked within the Arduino Source Code and Raspberry Pi Files)

Forum Thread:

<http://mkme.org/forum/viewtopic.php?f=32&t=702>

# All files and source code:

All files and updates via GitHub:

<https://github.com/MKme/EduCase-Portable-Classroom>

## Project References

Initial design completed spring 2016. Testing and updates ongoing via Hackaday website:

<https://hackaday.io/project/11010-educase-portable-classroom>

## Assembly

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## Glossary

**Arduino**- Arduino is an open-source computer hardware and software company, project and user community that designs and manufactures microcontroller-based kits for building digital devices and interactive objects that can sense and control the physical world.

The project is based on a family of microcontroller board designs manufactured primarily by SmartProjects in Italy, and also by several other vendors, using various 8-bit Atmel AVR microcontrollers or 32-bit Atmel ARM processors. These systems provide sets of digital and analog I/O pins that can be interfaced to various expansion boards ("shields") and other circuits. The boards feature serial communications interfaces, including USB on some models, for loading programs from personal computers. For programming the microcontrollers, the Arduino platform provides an integrated development environment (IDE) based on the Processing project, which includes support for C,C++ and Java programming languages.