

The Electromagnetic Cannon

Introduction

Latest military advancements have seen traditional firearms replaced by electromagnetic canons. Also, latest aircraft carriers are now launching fighter jets by electromagnetic launchers, instead of using traditional steam powered launchers.

Do you want to build an electromagnetic canon? Do you want to understand the underlying technology of electromagnetic propulsion?

This 5-week long project will provide you with an experience in electromagnetic propulsion. You will design, build, and test a small electromagnetic canon.

Project Content

1. Basic principles of electromagnetic force generation
2. Use of basic electrical measurement tools and hand tools (soldering iron, etc.)
3. Design and build an electromagnetic launcher.
4. Evaluate and improve the performance of your system

What you will learn?

1. How to complete an engineering project: from design, implementation to testing and verification.
2. Practical skills in solving practical problems.
3. Experience in hardware building and testing.

