

Abstract Submitted
for the TSS12 Meeting of
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Electromagnetic Accelerator¹ JARED LAND, McMurry University —
The objective of this senior physics student research project was to design a functional electromagnetic accelerator (i.e. railgun), with considerations for size, portability, modularity, and weight. This has been accomplished through practical design application of electromagnetic principles and streamlined construction to study effects of various rail geometries/bore profiles, and projectile design. The railgun has been tested and its efficiency has been studied.

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