



Problems

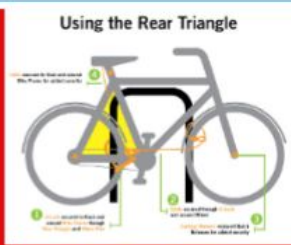
Bikes "worth some \$50 million" lost by riders annually - Bicycle Law

Only method of transportation for some

"1.5 million bikes are stolen every year" - FBI

76% of thefts are of just the COMPONENTS

Commuters, professional cyclists, and kids are all at risk



So far there have only been attempts to solve this prominent issue

This multi-lock mechanism is a common idea

However, this costs more money for the consumer and companies have to manufacture more locks, with the uncertainty of whether or not it will work



About the Team

We are Seniors at Santa Monica High School and take part in the PLTW program. Two out of us three have gotten our bikes stolen due to faulty locks and decided to take affirmative action.

We have already brainstormed and have a whole semester to design, and build a working lock that meets our high demands.

Bike Bolt

Problem Statement

A serious problem is posed for anyone that owns a bike and uses it to commute. Since the 1920's, when modern road bikes were popularized, consumers have been forced to deal with bike theft. People are at risk of losing their tires, handlebars, seat posts, or even entire frames to any common thief with an Allen Wrench. This problem is especially prevalent in dense cities and college campuses; in fact college students are 53% more likely to have their bicycles stolen, especially on UC campuses. Additionally, according to the FBI, "1.5 million bikes are stolen every year" and 76% of those thefts are of just its components, costing people "worth some \$50 million" dollars annually. This is a significant issue communities face since it costs people so much money, hurts the bike industry by discouraging people to invest any further, and eliminates an eco-friendly method of transportation.



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The Next Wave of Bike Security

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