Project Team for MEMS 1029

Pitt's Spring 22 MEMS 1029: Mechanical Design II

Team Member

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Pre-思路

模仿手机厂商

呈现的时候：

- 定义requirement（尺寸， 质量） --- 但这部分其实是设计完了再更新
- 直接呈现完整产品的动画 【Overview】
  - 用关键词highlight模型的特征：
    - Energy storage must be done using springs
    - Input power must come from a human-powered hand-crank.
    - Device must have a gearbox and gear train
    - 我们找一下手摇发电机的大小？然后对比并展现我们的发电机size很小。
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- 再根据要求 -- 逐一验证可行性 【我的产品牛逼】
  - 从储能的角度 先分析弹簧
  - Device must be capable of storing 10 Watt-hours of energy.
  - Input power must come from a human-powered hand-crank. The design of the hand-crack is up to you, e.g. the size, the shape.
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- 产品的优越性：比传统的spring设计的有哪些好处 【对比友商】
- 价格分析

Why don't they use springs as an energy source for cell phones?

check here: link