



# Personal Project Pitch

By: Joe Zhang

---

# Table of contents

**01. Problem  
Statement**

**02. Solution  
overview**

**03. Explanation**

---

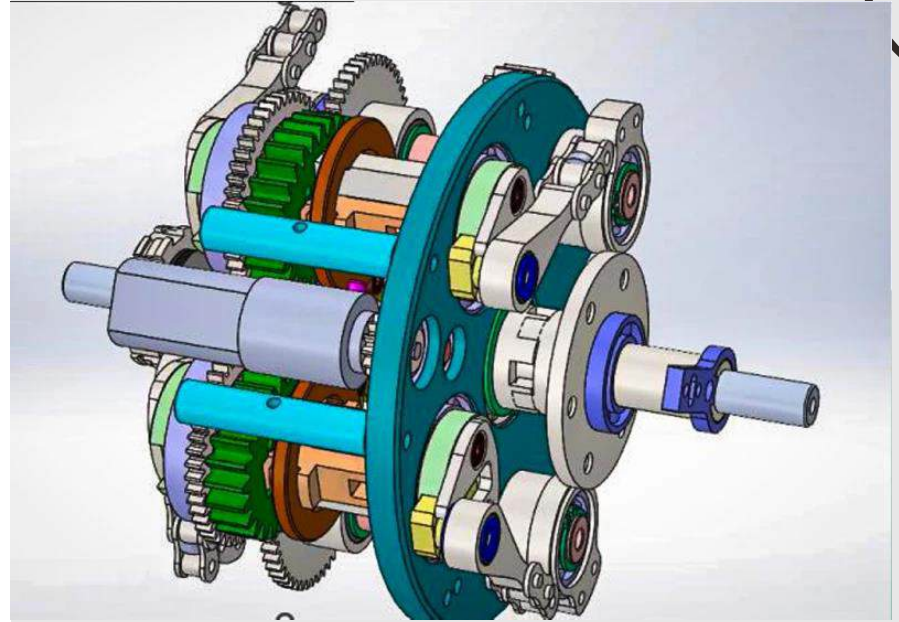
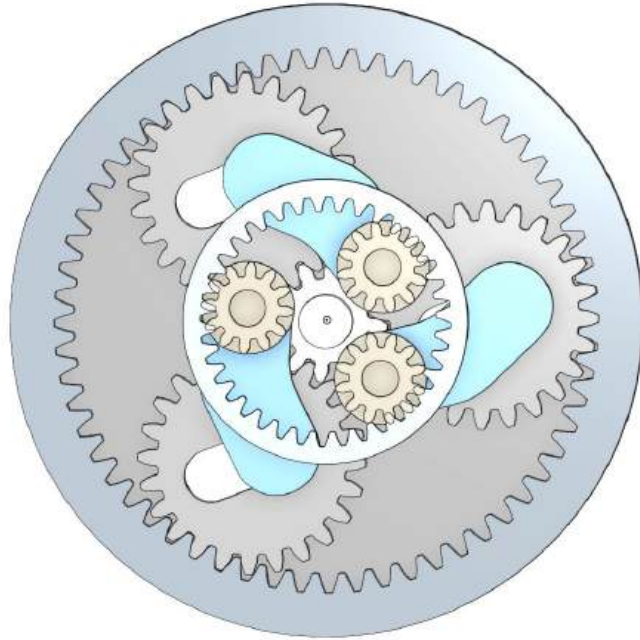
# The Problem

RC Cars lack power and speed caused by several inefficiencies:

- Fixed gear ratios
- Bottlenecked Motors
- Ineffective acceleration



# Product overview

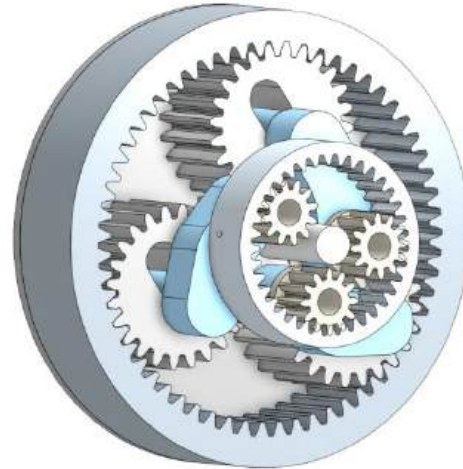


# Solution

A planetary gear system that has elements of a CVT going from a ratio of 2.8 to as low as 0.4. Controlled automatically or remotely by a programed chip.

**Transmission Specifications**

Type	Manual (5 Speed)	
	Gear Ratio	Overall Ratio
1st Gear	3.583	14.5183
2nd Gear	1.947	7.8892
3rd Gear	1.343	5.4418
4th Gear	0.976	3.9548
5th Gear	0.804	3.2578
Final Drive	4.052	-



# Demo & Explanation





# **Thank you for your time**

Questions?