Engineer’s Club project overview for their RC car & Drone project

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Materials** | **Amount** | **Cost per unit** | **Links for purchasing** |
| Drone kit | 1 | $69.99 | [Amazon.com: Quadrotor Drone DIY Kit: A Unique STEM Project with Brushless Motor, Optical Flow Hovering, One-Click Takeoff and Landing, and 360° Flip for DIY Enthusiasts to Learn Drone Basics : Toys & Games](https://www.amazon.com/dp/B0DT43FHC2?ref=cm_sw_r_apin_dp_Y02B5Q4KQJGSDZYXFBW1&ref_=cm_sw_r_apin_dp_Y02B5Q4KQJGSDZYXFBW1&social_share=cm_sw_r_apin_dp_Y02B5Q4KQJGSDZYXFBW1&titleSource=true) |
| RC Car kit | 1 | $79.99 | [Amazon.com: ELEGOO UNO R3 Smart Robot Car Kit V4 for Arduino Robotics for Kids Ages 8-12 12-16 STEM Science Kits Coding Gifts for 8 9 10 11 12 13 14 15 16 Year Old Boys Girls Teens Cool Engineering Building Toys : Toys & Games](https://www.amazon.com/Arduino-Robotics-Science-Engineering-Building/dp/B07KPZ8RSZ/ref%3Dsr_1_1?crid=22U5QBL1YBH7M&dib=eyJ2IjoiMSJ9.babjSmpE-3D55bL50SAvWUHNzSUefC8Y0Lc62twd2LXv2tTZXPRuz8oPSpfNtuxcpZcd9Ak80NgfqjRQCLgkTRHJq50SBv39ddkA7CXwzrHDePNFr7TilAvq0JOia3JmCrb3E5Gclk1wCdb_z1rp_qvvxhyX3m2pCNafVBuwJ3WjnMlexyaX0U0Tx7wb3zxBXaCT1xzsi85qZs58EvQEMeObduiw22G5Hvta4DcYu2oci3wGfYHhz9JsqGb6FtIPNeOUzkHQ3amDw9APiME-_PJIClzeVsGTEMaVA4LEbbw.4-kr6WCuS53SG2UlFW4IfaFEEsyD_ax7RWzWt7SwnTs&dib_tag=se&keywords=elegoo+rc+car&qid=1757707749&sprefix=elegoo+rc+car%2Caps%2C256&sr=8-1) |
| Elegoo R3 board | 2 | $16.99 | [Amazon.com: ELEGOO UNO R3 Board ATmega328P with USB Cable(Arduino-Compatible) for Arduino : Electronics](https://www.amazon.com/ELEGOO-Board-ATmega328P-ATMEGA16U2-Compliant/dp/B01EWOE0UU/ref%3Dsr_1_1_sspa?crid=1PLK0F4JZQTNZ&dib=eyJ2IjoiMSJ9.gwjzss8dD14vK8Al3ElQfGf-k4b0zn7PvqVws6RdSzI1Fksd1o2_w9iM-zyp71g63ndGIMTtSd0CZuol-jlPcRSg8kpYLpACaMNSLfFkg1ebF41EwnRy-I3xKuRCvQzZnJzknhgaOaPliToc753TkE4i4zAVaNQF-kmYNi29mtB0X01_6_UFfgEXMz-HGfV3MGR_FDGLoli7mU2qVnDzfVZ-e7EevJn9JoM6c9B6uy8.1XUJfAyPboY2M4dOkvq_1db1xiS0OEyDxKBCoBZUKKg&dib_tag=se&keywords=arduino+elegoo+r3&qid=1755020982&sprefix=arduino+elegoo+r3%2Caps%2C389&sr=8-1-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1) |

Project 1 Description:

 These items will assist the Engineers Club in teaching its members engineering fundamentals through a hands-on project involving the fabrication of a common interest in the club, RC Cars and Drones. These items are necessary for the hands-on workshops that we plan to provide for our club members and for the actual construction of the members' RC vehicles. Through these materials, students will be thought useful skills in coding with Arduino, Computer Aided design, and team coordination.

Methods of Advertisement:

 Members of the Engineers Club have been notified and will continue receiving notifications about the RC Car and Drone project so that we can offer this opportunity to many engineering students and students interested in engineering. We will utilize flyers, discord notifications, Instagram notifications, shoutouts from other STEM related clubs, and announcements from STEM Professors.

Methods of evaluation:

 This project is estimated to hold a great yield in teaching students’ helpful skills all falling into the categories of Arduinos, CAD, and team project development. To evaluate this outcome, a poll will be sent out at the end of this projects deadline to see what students have gotten out of this experience and how it could be made better in future iterations/projects.