

**TEAM AMERICA ROCKETRY CHALLENGE 2018  
QUALIFYING/SELECTION FLIGHT DEMONSTRATION**

TEAM'S SCHOOL/ORGANIZATION: Explorer Post 1010

AIA TEAM NUMBER: 4054 ADULT ADVISOR: Robert Ekman

DATE OF THIS FLIGHT: 03/24/18 QUALIFICATION ATTEMPT # (Circle) 1 2 **3**

**MINIMUM FLIGHT REQUIREMENTS (ALL MUST BE CIRCLED "YES" OR THE FLIGHT IS DO)**

- Did this rocket weigh less than 650 gm at takeoff, with egg and motors, and was it 650mm or more long? **YES** / NO
- Did it use two different-diameter body tubes for its exterior structure, with the rear one containing the motor being no less than 2.52 inches diameter and the upper one containing the eggs no greater than 2.25 inches diameter? **YES** / NO
- Did it use motors from the TARC approved list containing a total of no more than 80 N-sec total impulse? **YES** / NO
- Did it contain two Grade A large, raw hen's eggs, and a TARC-approved altimeter? **YES** / NO
- Did this rocket make a safe flight and recovery under the TARC 2018 rules & NAR Safety Code? **YES** / NO
- Did all parts of the rocket land connected together and without any human intervention (catching)? **YES** / NO
- Did both of the eggs carried by the rocket remain uncracked after the flight? **YES** / NO 827

**SCORING**

|                           |                        |    |                            |   |                       |
|---------------------------|------------------------|----|----------------------------|---|-----------------------|
| TIMER # 1 (NAR OBSERVER): | <u>46</u> . <u>62</u>  |    | EXCESS ABOVE 43.00 SEC:    | <u>3</u> . <u>625</u>                                     |                       |
|                           | SEC HUNDREDTHS         |    |                            |   |                       |
| TIMER # 2 (OTHER ADULT):  | <u>46</u> . <u>63</u>  | OR | MULTIPLY EXCESS BY 4:      | <u>14</u> . <u>50</u>                                     |                       |
|                           | SEC HUNDREDTHS         |    |                            |   | +                     |
| AVERAGE TIME:             | <u>46</u> . <u>625</u> |    | SHORTFALL BELOW 41.00 SEC: | <u>0</u> . <u>0</u>                                       | +                     |
|                           | SEC HUNDREDTHS         |    |                            |   | +                     |
| ALTIMETER ALTITUDE:       | <u>827</u> FEET        |    | MULTIPLY SHORTFALL BY 4:   | <u>0</u> . <u>0</u>                                       | +                     |
|                           |                        |    |                            |   | +                     |
|                           |                        |    | DIFFERENCE FROM 800 FEET:  | <u>27</u>   | +                     |
|                           |                        |    | (NO NEGATIVES)             |   | +                     |
|                           |                        |    |                            | <b>FINAL SCORE (SUM)</b>                                  | <u>41</u> . <u>50</u> |
|                           |                        |    |                            | <b>Put <u>only</u> "DQ" if any answers above are "no"</b> |                       |

**SUPERVISING TEACHER/ADULT CERTIFICATION**

I certify that the student members of this team designed, built, and flew this rocket without my assistance and, to the best of my knowledge, without the assistance of any other adult or any person not on the team. I also certify that no more than the allowed number of official qualification flight attempts were made by this team, and that the team information on file at AIA is current. I understand that team membership can no longer be changed and only team members on file at AIA with valid parent consent forms are eligible to receive prizes.

SIGNATURE: Robert Ekman PRINT NAME: Robert Ekman

**ADULT N.A.R. MEMBER OBSERVER CERTIFICATION**

I certify that I am a Senior NAR member who personally observed this flight, and the above initials and scores are mine, based on my observations. I certify that I am not related to any team members or affiliated with their school or non-profit organization, that this flight was conducted in compliance with the rules of the Team America competition, and that this flight was declared to me to be an official qualification flight before its liftoff.

SIGNATURE: Daniel Roh PRINT NAME: Daniel Roh PHONE: 301-461-5019  
 NAR NUMBER: 94865 CITY, STATE: Rockville, MD EMAIL: Sangyeon.Roh@yahoo.com

**SUBMIT USING TARC PORTAL (preferred, successful flights only), FAX TO 703-358-1134,  
 OR E-MAIL SCANNED COPY TO [QualificationFlights@aia-aerospace.org](mailto:QualificationFlights@aia-aerospace.org)  
 NO LATER THAN MIDNIGHT (EST) APRIL 2, 2018\*\*\*\*  
 Team sends in form if flight successful, NAR observer sends in form for unsuccessful flights.**