



# MARS 2014



2022-2023  
TEAM ATTRIBUTES

WE CAME TO BE  
**INSPIRED**  
WE STAY BECAUSE  
**WE ARE**

WE WILL BECOME  
**THE INSPIRATION**

# TABLE OF CONTENTS

- **MARS**

|                     |    |
|---------------------|----|
| EXECUTIVE OVERVIEW  | 1  |
| TEAM HIGHLIGHTS     | 2  |
| STUDENT LEADERSHIP  | 5  |
| DIVERSITY COMMITTEE | 9  |
| EQUITY & INCLUSION  | 10 |
| VITAL STATISTICS    | 11 |

- **FIRST**

|                      |    |
|----------------------|----|
| TUCKER TEAMS         | 15 |
| WVROX                | 16 |
| LEADERS & INNOVATORS | 19 |
| REBUILDING FLL       | 20 |

- **WEST VIRGINIA**

|                     |    |
|---------------------|----|
| OUTREACH            | 23 |
| HYBRID MODEL        | 24 |
| INNOVATION BUILDING | 27 |
| DRONE TEAM          | 28 |

# MARS

Executive Overview, Team Highlights, Student Leadership, Diversity Committee, Vital Statistics



# EXECUTIVE OVERVIEW

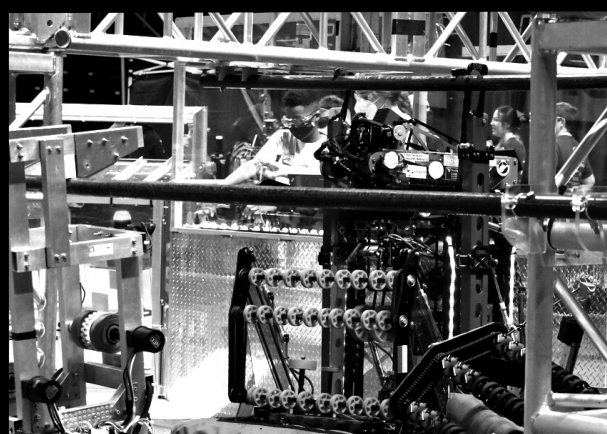
MOUNTAINEER AREA ROBOTICS (MARS), FIRST® ROBOTICS COMPETITION (FRC) TEAM 2614, WAS FOUNDED IN 2008 BY FIVE MEMBERS OF A FORMER THREE-TIME WEST VIRGINIA STATE CHAMPION FIRST LEGO® LEAGUE TEAM TO CONTINUE THE EXPLORATION OF STEM EDUCATION DURING HIGH SCHOOL. MARS SERVES APPROXIMATELY 40 STUDENTS FROM YEAR-TO-YEAR IN GRADES 8–12.

ADDITIONALLY, MARS SPONSORS, MENTORS, AND COACHES A DRONE TEAM FOR STUDENTS IN GRADES 8-9; FIRST LEGO LEAGUE CHALLENGE (FLL-C) TEAMS FOR STUDENTS IN GRADES 4–8; AND FIRST LEGO LEAGUE EXPLORE (FLL-E) TEAMS FOR STUDENTS IN GRADES 2-4.

MARS WELCOMES ALL PEOPLE WITHOUT REGARD TO RACE, ETHNICITY, COLOR, RELIGION, NATIONAL ORIGIN, SEX, GENDER, SEXUAL ORIENTATION, ANCESTRY, ABILITIES, ECONOMIC OR FAMILY STATUS, LIFE SITUATION, VETERAN STATUS, OR PHILOSOPHY. WE STRIVE TO BE AN INCLUSIVE ENVIRONMENT FOR ALL INDIVIDUALS BY ADVOCATING FOR AND PROVIDING EQUAL TREATMENT TO ALL.

# TEAM HIGHLIGHTS





# STUDENT LEADERSHIP

## — Student Leadership Council —

SECRETARY



PRESIDENT



ADMINISTRATOR



MECHANICAL



ELECTRICAL



OUTREACH/PR



PROGRAMMING



MARS HAS FOUR SUBTEAMS: MECHANICAL, ELECTRICAL, OUTREACH AND PUBLIC RELATIONS, AND PROGRAMMING. EACH SUBTEAM ELECTS A STUDENT LEAD TO ORGANIZE AND REPORT PROGRESS. THESE LEADS ALSO SERVE ON THE STUDENT LEADERSHIP COUNCIL, ALONG WITH THREE ADMINISTRATIVE LEADERS ELECTED BY THE ENTIRE TEAM. THE COUNCIL FACILITATES INTERNAL COMMUNICATION, SETS TEAM GOALS, AND APPOINTS LEADERS FOR BOTH THE DIVERSITY COMMITTEE AND MARS INNOVATION PROCESS.

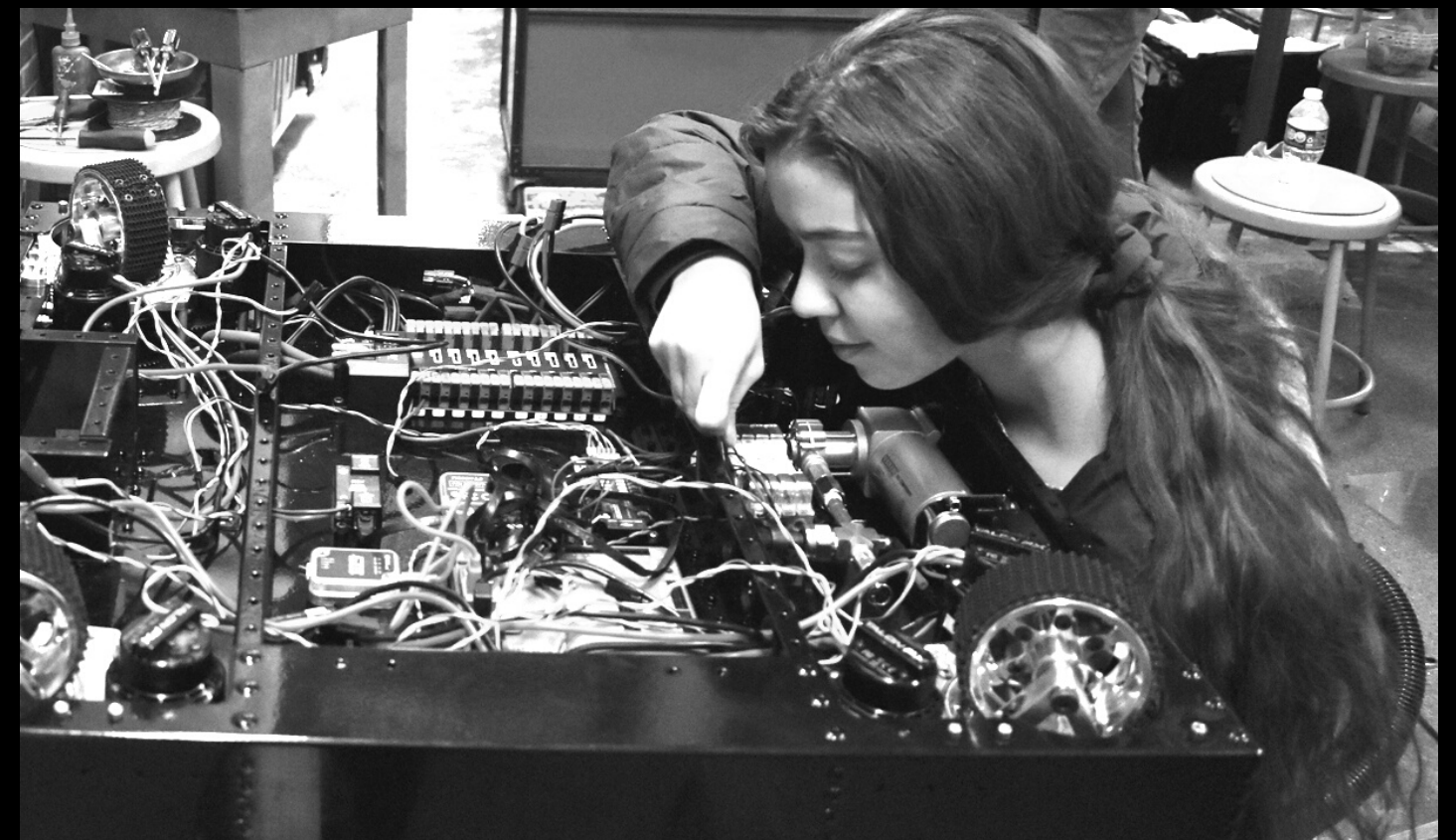
# STUDENT LEADERSHIP

THE MARS INNOVATION PROCESS (MIP) IS A NEW SYSTEM THAT PLACES EMPHASIS ON STUDENT-LED PROJECTS. AFTER THE INITIAL DESIGN OF THE ROBOT IS MADE, STUDENTS CAN PROTOTYPE AND TEST NEW ITERATIONS OF THE ROBOT'S SUBSYSTEMS. MIP ENCOURAGES THE REFINEMENT OF CONCRETE AND ABSTRACT SKILLS, PROVIDING EXPERIENCES THAT TRANSLATE THROUGHOUT STUDENTS' LIVES.

## — MIP Lead —



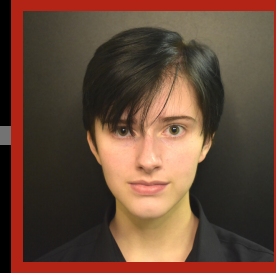
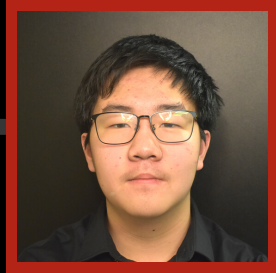
THE COUNCIL ANNUALLY APPOINTS A MIP LEAD. THE MIP LEAD REVIEWS DESIGN PROPOSALS AND ASSISTS STUDENTS WITH TESTING AND REFINING THEIR IDEAS. THIS ALLOWS NEW IDEAS TO BE INTEGRATED EASILY AND ALLOWS FOR A MORE FLEXIBLE DESIGN MODEL. THEN THEY PRESENT TO THE COUNCIL, MIP LEAD, AND THE LEAD TECHNICAL MENTOR WHO DECIDES IF THE NEW IDEA GETS INTEGRATED INTO THE ROBOT.



# DIVERSITY COMMITTEE

## Diversity Committee

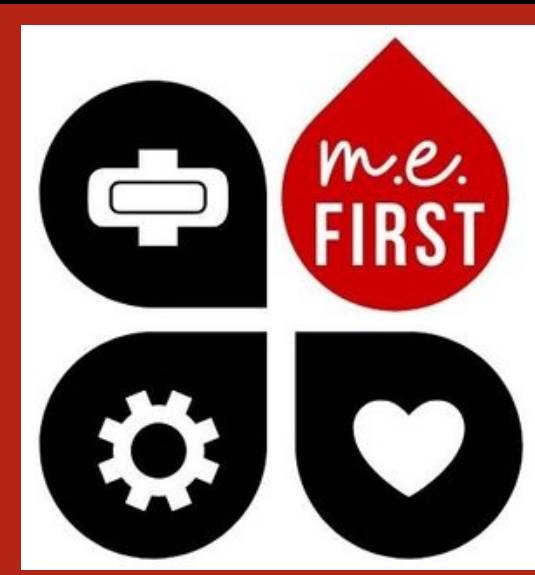
CHAIR



THE MARS DIVERSITY COMMITTEE BRINGS TOGETHER MEMBERS FROM VARIOUS BACKGROUNDS TO OUTLINE AND PROMOTE MARS' GOALS OF MAINTAINING INCLUSIVITY FOR EVERYONE IRRESPECTIVE OF RACE, GENDER, SEXUAL ORIENTATION, PHYSICAL ABILITY, OR ECONOMIC CIRCUMSTANCES. IT IS MARS' MISSION TO PROMOTE A SAFE AND WELCOMING ENVIRONMENT IN STEM.

# EQUITY & INCLUSION

MARS' EQUITY ACTION PLAN OUTLINES INITIATIVES TO FURTHER INCLUSION IN STEM. TO INCREASE TEAM DIVERSITY AND PROVIDE BROADER ACCESS TO STEM, WE FOCUS ON UNDERSERVED COMMUNITIES SUCH AS THE LGBTQ+ COMMUNITY, DISABLED INDIVIDUALS, AND STUDENTS IN DEPRESSED SOCIO-ECONOMIC AREAS. THE PLAN'S CURRENT INITIATIVES INCLUDE RECEIVING SAFE ZONE TRAINING, PROVIDING STEM CRAFTS TO PATIENTS WITH IMPAIRED MOTOR-SKILLS, AND UTILIZING THE HYBRID MODEL TO REACH RURAL COMMUNITIES.



TO ADDRESS THE LACK OF PERIOD PRODUCTS AT COMPETITIONS, TEAM 1868, SPACE COOKIES, FOUNDED THE FIRST M.E. AMBASSADOR PROGRAM.



THIS SEASON, MARS VOLUNTEERED AS MENSTRUAL EQUITY AMBASSADORS, PROVIDING PERIOD PRODUCTS AT COMPETITIONS AND IN OUR WORKSPACES. ADDITIONALLY, MARS IS WORKING WITH WVU STUDENT GOVERNMENT TO PROVIDE PERIOD PRODUCTS CAMPUS WIDE.



# VITAL STATISTICS

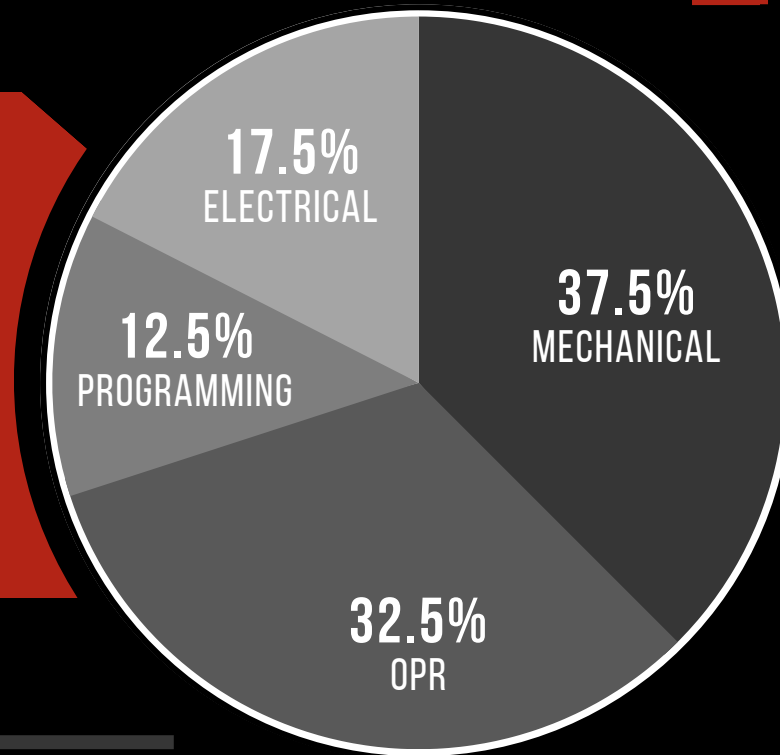
## DURING 2022:

- 15,523 PEOPLE REACHED
- 7,472 OUTREACH VOLUNTEER HOURS

**40** Team Members

**8** Drone Team Members

**28** Team Sponsors



**108 MARS ALUMNI**

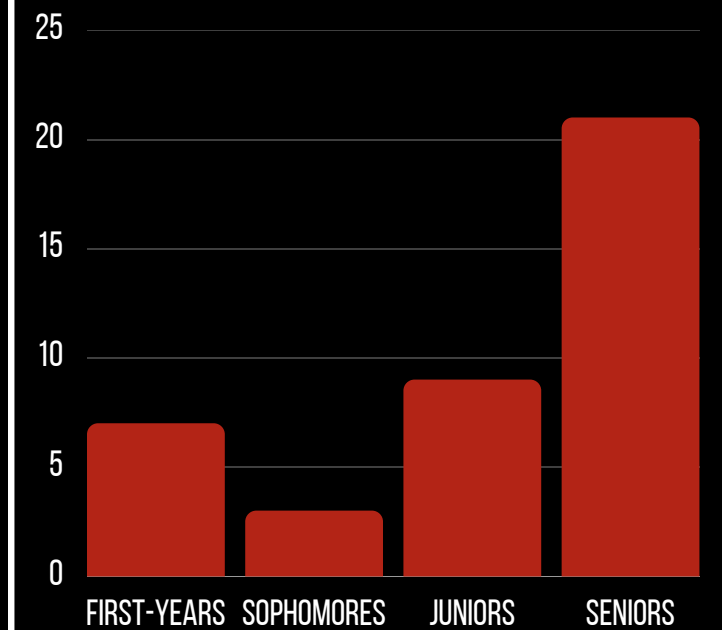
**97%** Post-Secondary Education Rate

**2017**

Championship Chairmans Award Winner

**100%** Students Involved in Outreach

## 2023 GRADE BREAKDOWN



## MARS Competition Award History

