



**WEST
VANCOUVER
SCHOOLS**

A world of opportunity



PREMIER MECHATRONICS ROBOTICS ACADEMY

2022 - 2023 Open House Information

Land Acknowledgement



We would like to acknowledge and thank the Sḵwxwú7mesh Úxwumixw (Squamish Nation) upon whose traditional territory West Vancouver Schools reside.

We would like to express our gratitude to this Nation as we value the opportunity to learn and share educational experiences on this traditional territory.



Academy Personnel

Mr. Paul Eberhardt

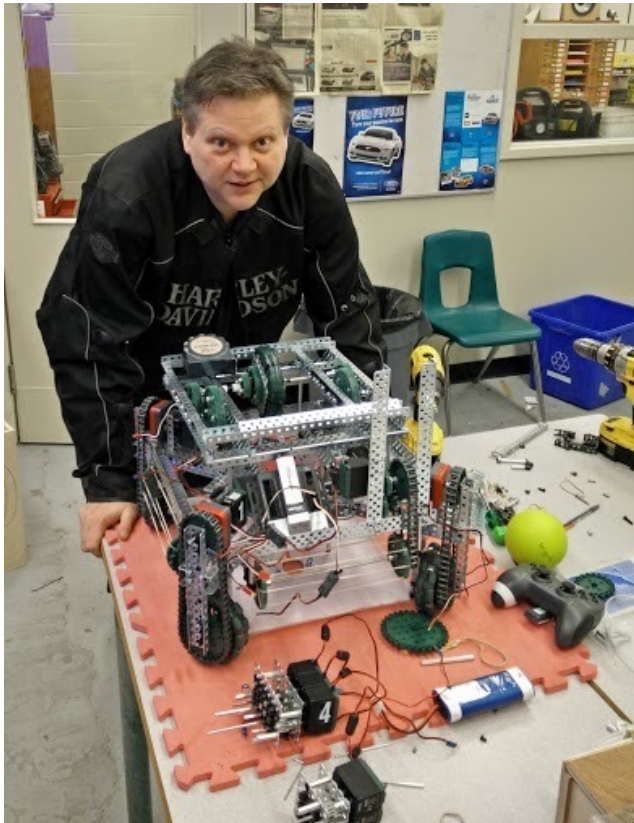
Vice-Principal, Academies



- M.Ed. in Education Curriculum & Instruction
- High School Teacher and Coach for 30 years
- Joined the Academy team in 2018
- Responsible for day-to-day operations of the Robotics Academy including equipment purchase, tournament & travel organization, and finances

Mr. Todd Ablett

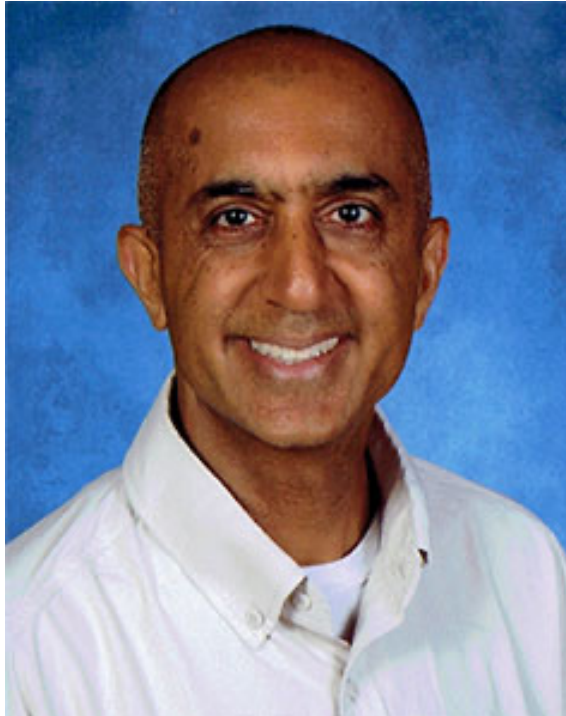
WVS Technology Education Teacher



- Teacher with over 25 years experience
- Taught a wide range of students over the years
- Winner - Prime Minister's Teaching Excellence Award
- Winner - VEX Robotics World Championship title competing with teams from all over the world
- Vex Robotics Teacher of the Year Award
- Inducted into the VEX STEM Hall of Fame

Dr. Mahesh Chugani

WVS Teacher & Certified VEX IQ Robotics Educator



An Electronics Engineer who has worked as a Software Engineer at National Instruments (Austin, Texas, USA), and as Director of Support and Training at Momentum Data Systems (Huntington Beach, California, USA)

Diploma in Electronics and Radio Engineering from Cusrow Wadia Institute of Technology, Pune, India

Bachelor of Engineering in Electronics and Telecommunications from College of Engineering, Pune, India

Dr. Mahesh Chugani

WVS Teacher & Certified VEX IQ Robotics Educator



M.S. and Ph.D. in Electrical Engineering from Rensselaer Polytechnic Institute, Troy, New York, USA

He has authored numerous technical publications and has also coauthored two books

Member, Educational Advisory Committee of Canada's Information and Communications Technology Council (**ICTC**) Digital DASH initiative

Ms. Cari Wilson

WVS District Innovation & Technology Lead



Over 20+ years classroom teaching experience
with a key focus on technology implementation

District Innovation and Technology Lead

Masters in Education Technology

Currently 1st Vice-President of CUEBC
(Computer Using Educators of BC)

Award Winner: Microsoft Innovative Teacher

Google Certified Trainer

Professionalism (Chaos Manager)

Mr. Braydan Pastucha

West Vancouver Schools Teacher



- 2021 - Current: WVS Mechatronics Robotics & Ignite Your Passion teacher
- 2016 – 2020: Daedalos Enrichment Programs senior robotics coach & STEM instructor
- 2017 – 2020: University Hill School – STEM instructor
- 2021: B.Ed. - Sustainability (UBC)
- 2018: B.Sci. - Math, Chem, Phys (UBC)
- Certified Robotics Education & Competition Foundation Judge, Head Referee, and Event Partner
- Certified VEX GO, IQ, and V5 Educator

General Concept

- Eligible students are those registered full time in any one of WVS schools: Rockridge, Sentinel or West Vancouver Secondary School)
- An inclusive program
- Grades 9-12
- All genders welcome



What are WVS Premier Sports Academies?

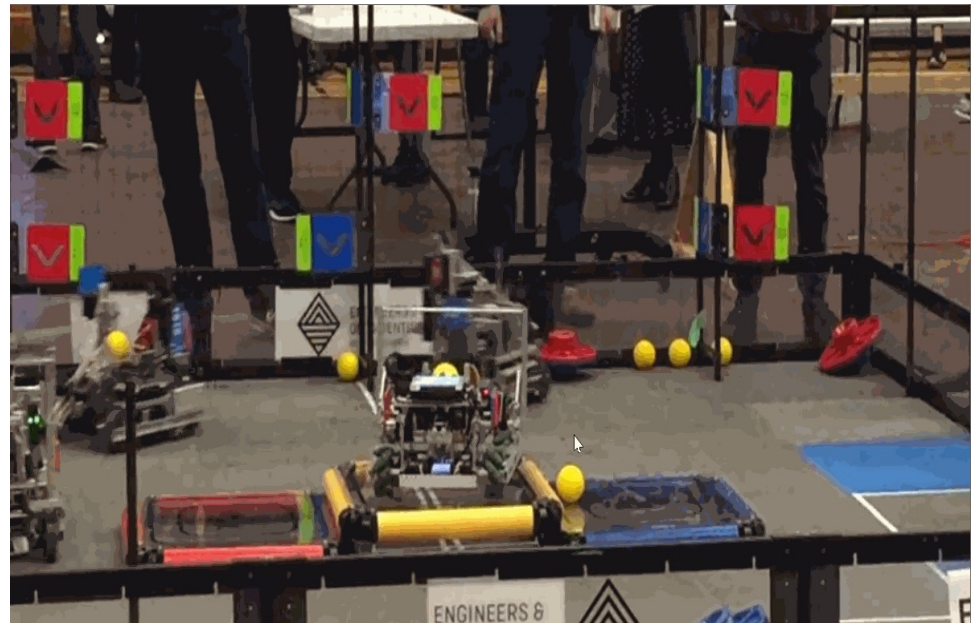
- Choice, fee-paying programs
- Designed for students interested in the academy and who have a desire to extend their knowledge & skills in this area
- Taught by WVS teachers, but can include partners in the community
- For participation in the academy, students receive course credits towards graduation
- The goal of an academy is to create a challenging, positive, inclusive, yet FUN environment for the students



Basic Course Description

Students:

- Work in design teams
- Research, design, build, program and test robots
- Receive introductions to Engineering, Robotics, Coding, Prototyping along with The Design Cycle
- Compete in Robotics competitions, locally, provincially, and internationally

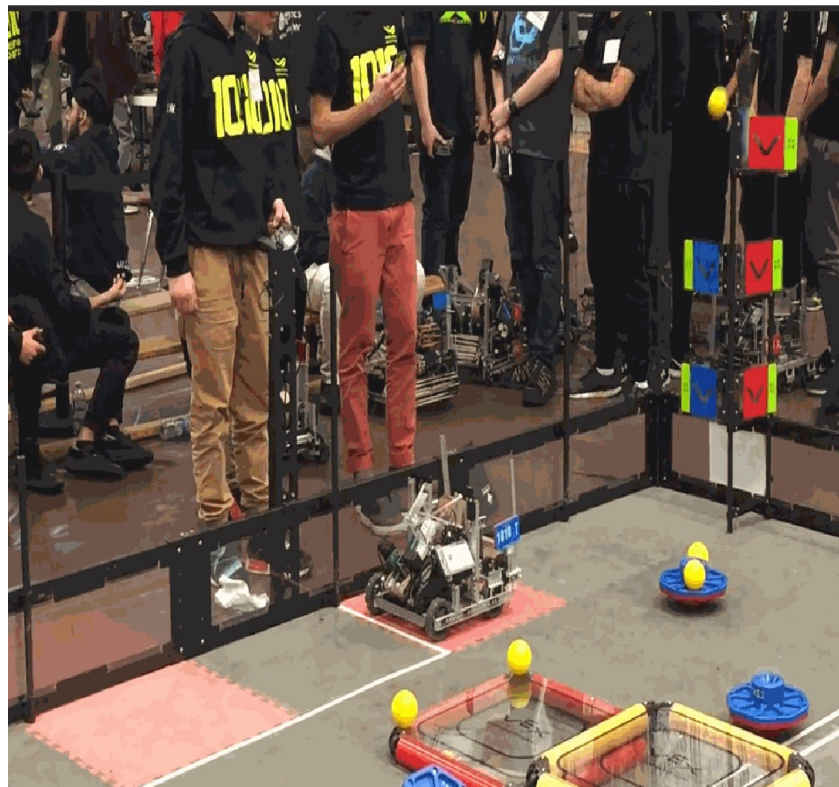


The Premier Robotics Academy runs linearly (all year long) from September to June

Students are scheduled on Tuesday **OR** Thursday afternoon during one of the X-Block periods

Senior students (Grades 11 & 12) are also scheduled on a Tuesday OR a Thursday afternoon BUT they also have the opportunity to participate on Friday nights of a part of the competitive program called FRC:
(FIRST Robotics Competition)

The Schedule



*Once all registrations are confirmed, the schedule of when/what day of the week students will be participating will be communicated before the end of the current school year

Semester System Sample Schedule

*Parents & students will be informed about the schedule as we move forward

Monday	Tuesday	Wednesday	Thursday	Friday
Period 1 8:30 - 9:50	Period 2 8:30 - 10:25	Period 4 8:30 - 9:50	Period 3 8:30 - 10:25	Period 2 8:30 - 9:50
Break 9:50 - 10:05		Break 9:50 - 10:05		Break 9:50 - 10:05
Period 2 10:05 - 11:25	Break 10:25 - 10:40	Period 3 10:05 - 11:25	Break 10:25 - 10:40	Period 1 10:05 - 11:25
Lunch 11:25 - 12:10	Period 1 10:40 - 12:35	Lunch 11:25 - 12:10	Period 4 10:40 - 12:35	Lunch 11:25 - 12:10
Period 3 12:10 - 1:30		Period 1 12:10 - 1:30		Period 3 12:10 - 1:30
Break 1:30 - 1:40	Lunch 12:35 - 1:20	Break 1:30 - 1:40	Lunch 12:35 - 1:20	Break 1:30 - 1:40
Period 4 1:40 - 3:00	*Robotics Academy 1:20 - 4:00	Period 2 1:40 - 3:00	*Robotics Academy 1:20 - 4:00	Period 4 1:40 - 3:00

The Location

All Premier Mechatronics Academy classes take place in the Technology Wing at West Vancouver Secondary School





Transportation

Bus Transportation

Students are transported from both Rockridge Secondary & Sentinel Secondary to WVSS

Parents are responsible for pick-up at the end of each session (e.g., from West Vancouver Secondary School)





Courses/Credits & Assessment

The Courses

For participating in the academy all year long, students receive:

Grade 9

Electronics and Robotics 9

Grade 10

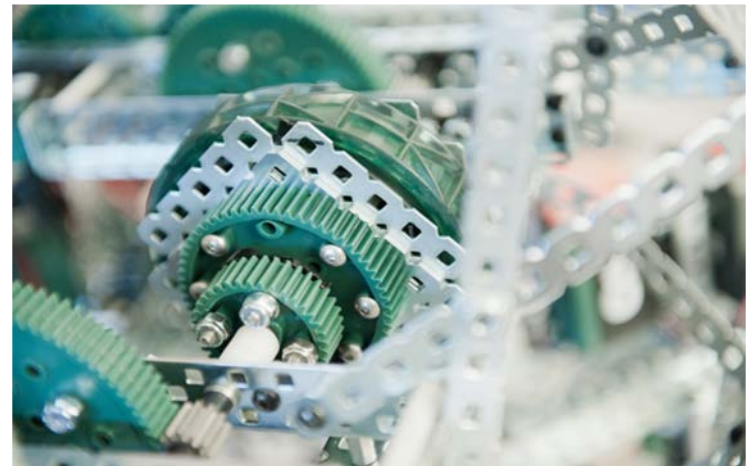
Electronics and Robotics 10

Grade 11

Robotics 11

Grade 12

Robotics 12



Engineering Course for Senior Students

For senior students, Grades 11 & 12, who participate in FIRST Robotics Competition (FRC)

Students receive their regular Robotics course depending on the grade level:

Robotics 11

Robotics 12

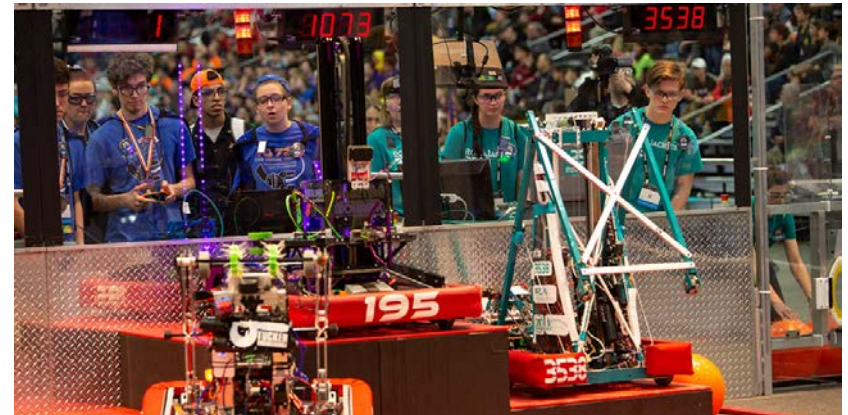
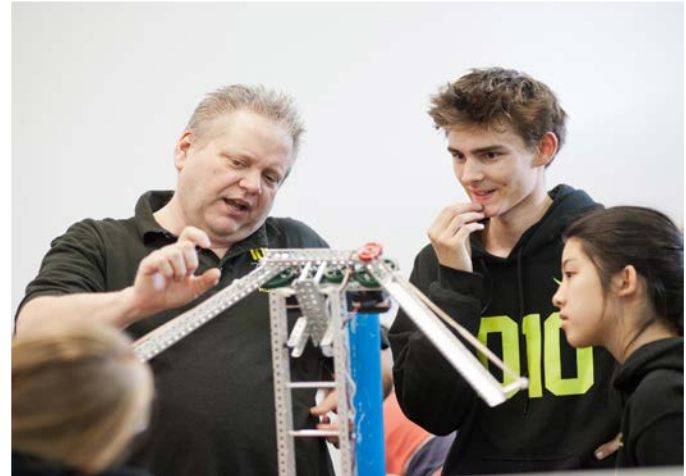
And with additional hours, receive....

Engineering 11

Engineering 12

More information provided to students who are interested

*Grade 10 student requests are reviewed



Classroom lessons include Friday nights & Saturdays.

Assessment & Evaluation

Assessment

- Students work on digital badges with specific criteria attached to each badge
- Students provided an Engineering Notebook with specific entries required
- Teachers observe & are continually assessing the students each session

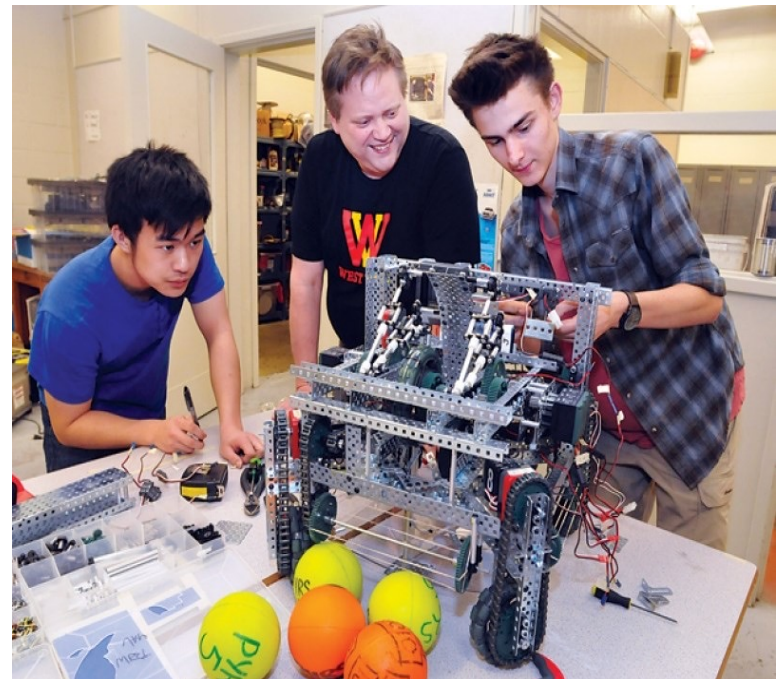
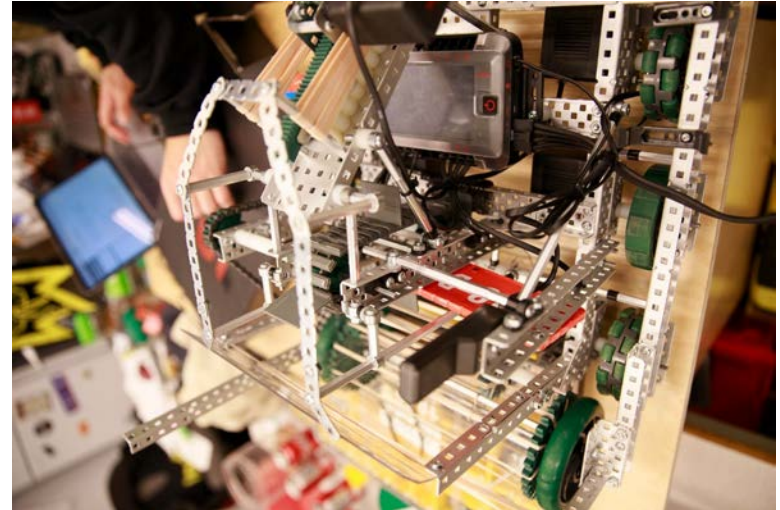
Report Cards

Report cards issued 3 times per year

Parent-Teacher Interviews

One formal virtual interview offered to parents

Open-door policy: Parents can contact us at any time





Clothing & Equipment

- Clothing order information will be provided to parents in preparation for September start-up
- Students are required to wear an Academy t-shirt or hoodie to their classroom lesson each week AND at competitions

Academy Clothing





Academy Fees

Fees

The cost of the program is \$2750 per year.

Parents can pay in full or provide monthly payments of \$275 x 10 months (September – June)

Once confirmed into the program, a non-refundable deposit is requested to hold the spot

Fees are collected through School Cash Online

More information will be provided to parents from the Academy Office once students are confirmed for the program





The Selection Process

Selection Process & Criteria

- ☐ Genuine interest or passion – sound reasons for applying
- ☐ If an assessment or an in-person meeting is required parents will be informed
- ☐ Commitment to participate for the full school year
- ☐ Complete the online Student Information Form
- ☐ Submit a copy of the student's most recent report card
- ☐ From the report card, we are looking for evidence of satisfactory to excellent work habits
- ☐ Other selection criteria include:
 - Ability to work well in other academic subject areas
 - Ability to maintain good to excellent grades
 - Demonstrated good character: being responsible & respectful
 - Ability to work well with others & ability to work independently
 - Ability to follow the rules of a special program, as well as the mandatory health safety protocols



Final Steps

Ready to Register?

- ☐ Register on-line at westvancouver.schools.ca completing the Student Information Form
- ☐ Ensure the student is registered full time in the West Vancouver School District
- ☐ Upload a copy of the student's most recent report card w the Student Information Form
- ☐ All completed applications (with report cards) will be reviewed by the Mechatronics Robotics Teachers
- ☐ Parents will be contacted as soon as possible once the applications are reviewed
- ☐ Once selection is confirmed, Academy Assistant, Ms. Tara Ledingham will contact parents with final paperwork and deposit requirements
- ☐ Parents whose students are confirmed for the academy will receive ongoing communication about any pertinent information in preparation for September 2022



Thank You

