

Rohanth Marem

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Education

White Oaks SS, International Baccalaureate Diploma Sept 2022 – May 2026
• **Distinctions:** Grade 10 and 11 Math Distinction (Highest Grade)

Experience

Founder, TensorForest Project – Town of Oakville May 2024 – Present
• Building drones equipped with LIDAR and ML processing to predict forest fires.
• Generated **50,000+ maps**, built soil organic carbon model to predict vegetation health with **81% accuracy**.
• Backed by the **Town of Oakville** and **Bloomberg Philanthropies** for **\$5000**.
• Won the **World Robotics Olympiad 2024** competing at the national level.

Team Captain, WOSS Robotics 8433X Sept 2023 – Present
• Captaining a rookie team of 15 members.
• Raised over **\$8,000 in sponsorships**, collaborating with local businesses and STEM organizations.
• Implemented outreach programs with local elementary schools to teach robotics, coding, and mechanical design and augmenting STEM curricula (recognized by school board for an **Inspire Award**).
• Featured on **Oakville News** for contributions to STEM education and high school competitive robotics.

Junior Officer, WOSS DECA Sept 2022 – Present
• Managed logistics and finances for **500+ members** in international case-based business competitions.
• Closely mentor a cohort of 12 students for provincial competition.
• Personally competing at the highest level in marketing at ICDC after winning the Provincial Championship.

Volunteer Experience (300+ hours)

Student Coach, Karate Canada 2019 - Present
• Worked with 50+ students to develop physical health and education.

Recreational Programs Volunteer, Ontario Science Centre Aug 2023 - May 2024
• Worked with groups of campers aged 4 to 12 during the summer. My role involved providing support in the supervision of campers, guiding their exploration of exhibit halls and contributing to the delivery of enriching science programs and recreational activities in both indoor and outdoor settings.

Awards

Build Award + Provincial Qualification , VEX Robotics Waterloo Qualifying Competition	2025
Provincial Champion + ICDC Qualifier , Ontario DECA Provincials (Retail Marketing)	2025
Inspire Award , Halton District School Board	2025
National Medalist , World Robotics Olympiad	2024
\$5000 Grant Recipient , Bloomberg Philanthropies Climate Action	2024
Provincial Finalist , Ontario DECA Provincials (Retail Marketing)	2024
Top 20% Distinction , Waterloo Cayley Math Contest	2024
2× 1st Overall , Ontario DECA Reginoals (Retail Marketing)	2023/2024
Top 20% Distinction , Waterloo Pascal Math Contest	2023
Regional Finalist , Ontario DECA Reginoals (Entrepreneurship)	2022
Eastern Canada Champion , Eastern Canada Debate Tournament	2022

Technologies

Languages: Java, Python, Javascript, C#, C++, R

Technical Applications: Neural Networks, Data Science, CAD, Database Structures, Server Networking