

John Alex

STEM Tutor • Robotics Coach • IB & AP Specialist

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Location: Austin, TX

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Identity
Verified Tutor

3200+

TEACHING HOURS

PROFESSIONAL SUMMARY

I help high-school students master STEM through hands-on projects. From IB Physics labs to AP Calculus drills and FTC robotics builds, I focus on proofs, prototypes, and repeatable problem-solving.

PROFESSIONAL EXPERIENCE

Lead STEM Tutor

Jan 2017 – Present

Independent

- Built lab-style sessions for IB & AP students with robotics integrations.

Robotics Coach

Sep 2019 – Present

FIRST Tech Challenge

- Coached competitive robotics teams; focus on sensors, control, and strategy.

Physics Instructor

Jun 2014 – Dec 2016

Austin Learning Center

- Ran inquiry-based physics workshops for 150+ students.

EDUCATION

M.Ed in Curriculum & Instruction

[Verified] 2016

University of Texas at Austin

B.Sc in Mechanical Engineering

2013

Purdue University

SKILLS & EXPERTISE

Teaching Subjects: IB Physics, AP Calculus, Robotics, Computer Science, Mathematics HL, SAT Math

Technical Skills: Physics, Calculus, Robotics, Python

CERTIFICATIONS

Teaching License (Secondary Science)

[Verified] 2016-05-01

Texas Education Agency

Robotics Foundations

2018-03-01

LANGUAGES

English (native) • Spanish (intermediate)

VERIFIED CREDENTIALS

Government ID – USA

M.Ed in Curriculum & Instruction – University of Texas at Austin

Teaching License (Secondary Science) – Texas Education Agency

ACHIEVEMENTS & AWARDS

FTC Coach Award

2023

Regional robotics coach recognition

Student Outcomes

2024

92% of students scored 6/7 in IB Physics HL

PORTFOLIO & LINKS

- **LinkedIn**
<https://www.linkedin.com/in/john-alex>
- **Demo lessons**
<https://www.youtube.com/@johnalexstem>