

Jishnu Khanna

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EXPERIENCE

Summer Research project- Department of Physics, University of Alberta,Edmonton — Research associate

July 2025 - PRESENT

Currently I am working as a research associate under Dr. Czarnecki and Dr. Marchand from the Physics department. We are working on a pedagogical paper on Sun Synchronous Orbit. This paper is expected to be published in the American Journal of Physics and the Canadian Journal of physics on completion.

Autonomous Research Vehicle Project(ARVP), Edmonton — Electrical team member

September 2024 - PRESENT

In this club, I have worked on the Altium designer which is used as a professional tool in the electrical industry to design PCBs. I have done a few projects which include working with temperature, humidity sensors and other microprocessors such as teensy 4.0. Other activities include soldering and controlling subsystems.

Engineering Student Society (Media Team), Edmonton — Photographer and videographer

September 2024 - April 2025

I volunteered in the media team and clicked various events. My duties included taking photos and editing them so they can be posted on social media handles. I have photography experience from high school as well.

EDUCATION

University of Alberta - B.Sc. Engineering Physics(Nano) Co-op GPA-3.8 First Class standing

September 2024 - May 2029

The British Co-Ed High School, India -First class 95%

April 2010 - May 2024 (4-Grade 12)

SKILLS

ALTIUM, Microsoft Office, Logger Pro, Phyphox, 3d printing and designing, Soldering, PCB Design,Coding(Java, Python), Professional photography and videography

AWARDS

University of Alberta International Admission scholarship

University of Alberta Regional scholarship

Dr Eric Newell, LLD (Hon) Entrance Scholarship

Deans First Class Standing(First year)

University of Alberta International Leaders Scholarship

Leslie and Molly award for excellence

LANGUAGES

English, Hindi, Punjabi and Urdu

PROJECTS

AFS Sir Cyril Taylor Sustainability Center- Project manager (April 2023-June 2023)

This project focused on building a sustainability centre in my high school and reducing carbon emissions. It won the special mention award from more than 100 schools participating worldwide.

STEM Club Founder - The British Co-ed High school (April 2023-May 2024)

I had started a STEM club in my high school which focused on sparking the interest about science and its application in middle school students. This club was further introduced in government schools in my city

Human following robot —High school capstone project

An autonomous robot powered by Arduino uno which followed the object placed in front of it. This robot had an IR sensor and Ultrasonic sensors to detect the arm to follow it.