

Carlos Alcantara

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🌐 cmalcantara

I'm a senior high school student interested in developing expertise in all the fields of science, from Math, Physics, Chemistry, Biology, Humanities, Engineering and Computer Science, in order to develop a unique perspective that will allow me to create vertically integrated solutions to today's modern problems.

Education

2014-2020 **Philippine Science High School - Main Campus.**

2006-2014 **Claret School of Quezon City.**

Research

Present **The Development of an Optimized Particle Swarm Optimization Algorithm for the Split-Delivery Vehicle Routing Problem with Time-Windows.**

2017-2018 **Development of an In House Metal Atomizer for Metal Additive Manufacturing.**

Technical Skills

Laboratory **Plasma Materials Laboratory, Nanotech Laboratory, Genomics Laboratory**

Programming **C, C++, Java, Python, Javascript, Command Line, Linux Administration**

Web Dev **HTML, CSS, Bootstrap, Javascript + React.js, Python + Django**

CAD **Autodesk Fusion 360, Autodesk CFD, Blender**

Product Dev **ROS, 3D Printing, CNC Machining, Industrial Design Sketching**

Editing **Affinity Designer, Final Cut Pro, Adobe Photoshop, Lightroom**

Scholastic and Curricular Achievements

2019 Delegate for **Philippine Schools Debating Championship 2019**

Delegate for **National Olympiad in Informatics Philippines 2019**

Delegate for **Interscholastic Debate Association 2019**

2018 **Research Internship in Plasma Materials Interaction Laboratory @ The Department of Mining, Metallurgical, and Materials Engineering**

Genomics Training Program @ Philippine Genome Center

Nanotechnology Program @ Jacobs University Summer Program

Youth Math Science & Technology - Best Research Poster

Delegate for **Inter-Secondary Schools Political Science Debate Summit 2018**

Delegate for **Rotary National Debate Competition 2018**

Delegate for **Interscholastic Debate Association 2 2018**

2016 Delegate in **DAGITAB XII (Electronics Competition)**

Delegate for **Asia-Pacific Informatics Olympiad 2016**

Delegate for **National Olympiad in Informatics Philippines 2016**

Delegate in **Machine Design Summit 2016**

Institute Positions

2014-2015 **Competing Team** | Invictus, Debate Team

2019-2019 **Mentorship** | Pisay XYZ, Maker Club

Languages

English Fluent

Filipino Fluent