

Corey O'Brien

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Education	Purdue University , West Lafayette, IN. May 2023 <ul style="list-style-type: none">Bachelor of Science in Aeronautical and Astronautical Engineering with a minor in MathematicsCumulative GPA of 3.62/4.00; Dean's List and Semester Honors
	Obama Academy of International Studies , Pittsburgh, PA. June 2019 <ul style="list-style-type: none">4.0/4.0 unweighted GPA in International Baccalaureate classesEarned International Baccalaureate Diploma
Work Experience	Dave O'Brien and Son , Pittsburgh, PA. June 2015 – August 2019 Roofer <ul style="list-style-type: none">Determined required materials and profit of roofing installation opportunities to maximize efficiencyConstructed and repaired various styles of roofs and roofing accessories to ensure safety and efficacy of customer's buildings
	Chateau Café and Cakery , Pittsburgh, PA. May 2016 – October 2017 Preparatory Chef <ul style="list-style-type: none">Optimized storage and arrangement of café to promote efficient operationCollaborated with employees to arrange schedules and tasksOrganized community outreach events to support other local small businesses
	Purdue 3D Printing Club , West Lafayette, IN. August 2019 – Present Lab Supervisor <ul style="list-style-type: none">Coordinated operation of the Purdue Innovation to Ideas Learning LaboratoryCommunicated with clients to determine proper 3D model design and 3D printing considerationsDemonstrated to incoming supervisors key elements of lab operation
	Autonomous Robotics Club , West Lafayette, IN. August 2019 – Present Mechanical Team Lead <ul style="list-style-type: none">Led development of Project Impulse, an autonomous test drone to develop softwareDetermined design for aerial system that will compete in the International Aerial Robotics Competition
Leadership Experience	Algebra by 7th Grade (AB7G) , West Lafayette, IN. August 2019 – Present Outreach Chair <ul style="list-style-type: none">Designed lesson plans to teach and demonstrate technological skills to local elementary school studentsTaught Autodesk Inventor, Cura slicing software, Micro:Bit microcontrollers, and Scratch programming to promote STEM
	CoderDojo , Lafayette, IN. January 2020 – Present Volunteer Teacher <ul style="list-style-type: none">Ensured the proper implementation of 3D printing hardware and software at the Lafayette Boys and Girls ClubInstructed staff and members of the Boys and Girls Club on how to design, modify, and create 3D modeled objects to demonstrate the usefulness of additive manufacturing and product design
	Purdue Engineering Presidents Council , West Lafayette, IN. August 2019 – January 2020 Representative <ul style="list-style-type: none">Collaborated with Purdue engineering clubs to organize engineering week, dedicated to celebrating the profession of engineeringPartnered with other club leaders to promote the welfare of every clubs' members
Technical Skills	C, Python, MATLAB, HTML, and CSS programming languages, Fusion 360, Solidworks, CATIA, Inventor, and OpenSCAD CAD software, advanced knowledge of additive manufacturing systems, proficient knowledge of small-scale electronics and microcontrollers