



NVBAA-RENO AIR RACES DRONE PILOT | 2021 SUMMER CAMP STEAM SUMMER INTERNSHIP JULY-AUGUST 2021



**CERTIFIED
PART 107
REMOTE PILOT**

**VISIT
Part107Camp.com
TO APPLY**



**60 CONTACT HOURS
ONLINE CURRICULUM
WEEKLY WEBINARS
INTERACTIVE TESTS
CERTIFICATE OF COMPLETION**



**FREE :)
\$1,000 VALUE!**

**Inviting High School Students to
Become Certified Drone Pilots
High School Educators Welcome!**

**NEVADA BUSINESS AVIATION ASSOCIATION
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Print the Student Honor Code, sign, scan and email it to reza@nvbaa.org.



OVERVIEW & PURPOSE

During this 2-month summer camp training program, instructors will provide comprehensive online and in-person (outdoors) training to prepare students for the FAA Part 107 Remote Pilot Certification Exam. In addition, this program will introduce students to the many career opportunities that are available now, and will be available in the future in the drone industry. Students will also learn about several other advanced software and drone technologies.

**Summer Camp starts at
8 am PDT on July 1, 2021**

PREREQUISITES

This program is open to any person who will be attending high school in the 2021-2022 school year.

INSTRUCTORS

The NVBAA Part 107 Summer Camp will be facilitated by the following instructors:

- **Reza Karamooz** - NVBAA President, GRADD CEO, Engineer, Part 107 Certified Drone Pilot
- **Ben Nguyen** - NVBAA Board Member, CCSD CTE Teacher, Part 107 Certified Drone Pilot
- **Nikki Meador** – CCSD CTE Project Facilitator, NVBAA Part 107 Kahoot Winner – Jan-Feb 2021
- **Skip Fredricks** - Hollywood Drones / DroneTV - 2X Emmy Nominee, veteran producer, writer, director, videographer and editor. Part 107 Certified Drone Pilot
- **Steven Zuluaga** - UNLV Mechanical Engineering Student - Part 107 Certified Drone Pilot
- **Jason D'Richards** – CSN Engineering Technology for UAS Systems Student, Part 107 Certified Drone Pilot

COURSE OUTLINE - SATURDAY WEBINARS - 8 AM PDT

The NVBAA Part 107 Summer Camp includes Saturday lessons from 8-9 am PDT, on the following dates:

- July 3 - FAA 14 CFR Part 107 Rules & Regulations
- July 10 - National Airspace System & Aeronautical Charts
- July 17 - Weather and Weather Sources
- July 24 - Loading and Performance
- July 31 - Crew Resource Management
- August 7 - Airport and Field Operations
- August 14 - Radio Communication Procedures, Emergency Procedures
- August 21 - Preflight Operations, and Authorizations and Waiver Requests
- August 28 – Final Kahoot Competition and Winner Announcement





SATURDAY WORKSHOPS - 9 AM PDT

The NVBAA Part 107 Summer Camp will provide the following Saturday workshops from 9-10 am PDT:

- July 10 - Demystifying Aeronautical Charts
- July 17 - TBD
- July 24 - Using UAS at Crash Scenes I - Intro to Photogrammetry
- July 31 - Using UAS at Crash Scenes II - Mock Crash Scene Challenge
- August 7 - Using UAS at Crash Scenes III - Mock Crash Scene Winner Announcement
- August 14 - Use of Drones in Industry
- August 21 - How to Make Money as a Part 107 Pilot

MID-WEEK WORKSHOPS - 8 AM PDT

The NVBAA Part 107 Summer Camp will provide the following mid-week workshops. These workshops start at 8 am PDT and end between 9-10 am PDT.

- July 1 - Introduction to Part 107 Summer Camp
- July 6 - 3D Modeling I - Intro to Augmented Reality and Virtual Reality (GRADD AR)
- July 8 - 3D Modeling II - Intro to Photogrammetry and Review of a Photogrammetry Project
- July 13 - 3D Modeling Presentations of Each Student Project
- July 15 – 3D Design, Additive Manufacturing, Reverse Engineering and 3D Printing
- July 20 - Drone Photography
- July 22 - Drone Photography outdoor hands-on lesson (meet at 6 am, location TBD)
- July 27 - Introduction to Autonomous Vehicle Technology
- July 29 - Career Opportunities in the Drone Industry
- August 3 – Life Lessons, Soft Skills, and Professional Conduct in the Workplace

STUDENT OUTCOMES

Upon successful completion of this training program, students will be able to understand and apply the following as it relates to drone operations:

1. FAA 14 CFR Part 107 Rules and Regulations
2. National Airspace System (NAS)
3. Aeronautical Charts
4. Weather Theory & Aviation Weather Services
5. Aircraft Loading & Performance
6. Flight Operations and Planning
7. Risk Factors and Mitigation
8. Drone Mission Planning for Photography and 3D Modeling of Objects





MATERIALS NEEDED

1. Laptop or computer for the online course
2. Laptop, computer, or smartphone for the webinars
3. Smartphone or camera for 3D modeling image capture

DRONE NOT NEEDED

1. You do not need to own a drone to participate in this training program.

VERIFICATION OF ATTENDANCE

Weekly quizzes during webinars, as well as tests at the end of each online lesson.

1. Five mid-week interactive quizzes - during webinars
2. Nine Saturday interactive quizzes- during webinars
3. Ten lesson tests, one at the end of each online lesson

CERTIFICATE OF COMPLETION

Each student will earn a Certificate of Completion after achieving the following:

1. Completion of all NVBAA Part 107 Test Prep Online Lessons, and an above 80% score on all end-of-lesson tests.
2. Attendance to at least 80% of all online classes, workshops and field trips
3. Completion of the End of Training Survey

FAA PART 107 CERTIFICATION ELIGIBILITY REQUIREMENTS

To become a Part 107 pilot, you must:

1. Be at least 16 years old
2. Be able to read, speak, write, and understand English
3. Be in a physical and mental condition to safely fly a drone
4. Pass the initial aeronautical knowledge exam (our Part 107 training course prepares you for this exam)
5. You DO NOT need to own a drone to take the FAA Certification Exam





STUDENT HONOR CODE

The NVBAA Student Honor Code serves to reinforce every student's commitment to academic excellence.

I _____, know that academic honesty and proper internet etiquette is critical to my success with this career path STEM educational program. I am committed to academic excellence, and will demonstrate appropriate behaviors in all online environments, and in-person, while enrolled in the NVBAA Par 107 Summer Camp.

When attending the online webinars, I will be polite, courteous and appropriate. I will not enter any information or comments in the Chat, that is not directly related to the subject matter. I will always be clear and brief in my comments, and will always be respectful to my instructors and classmates.

I acknowledge that any violation may result in a warning, or my immediate expulsion from the NVBAA Part 107 Summer Camp.

I appreciate the opportunity to participate in this program, and will do my best to achieve a 100% score on all tests and quizzes.

My signature below confirms that I agree to abide by the Student Honor Code.

Student Signature

Student Name

Name of school

Parent Signature (required)

Parent Name

Date

