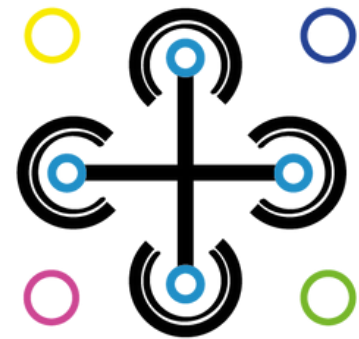

BYTE DRONE CENTER COURSE CATALOGUE

September, 2022



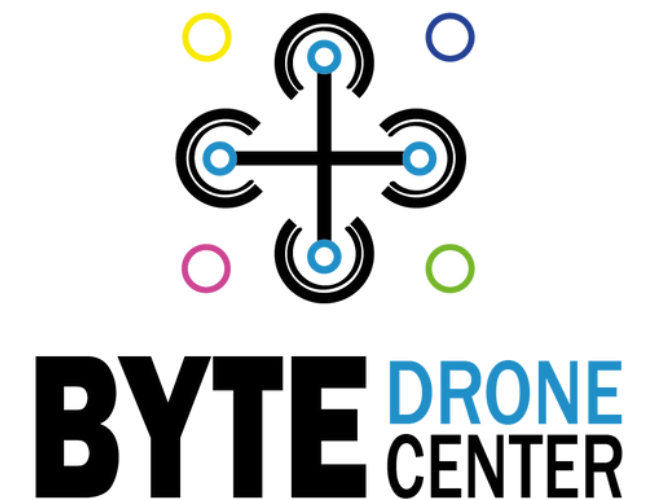
BYTE DRONE
CENTER

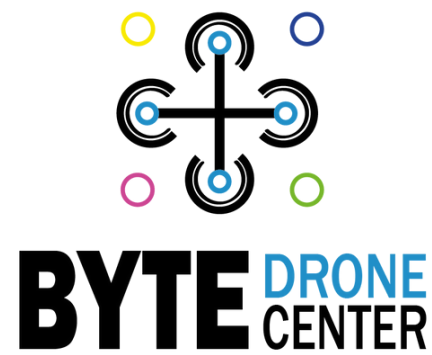
Byte Technology Solutions LLC
99 US 202 Ringoes, NJ 08551
(908) 627-9681



ABOUT US

Byte Drone Center is the drone training division of **Byte Technology Solutions LLC**. We bought NJ Drone Academy in 2020 and we rebranded to Byte Drone Center since we increased the number of services. **NJ Drone Academy** was born in 2016 and has offered drone training to several industries, including law enforcement, renewable energy, telecommunications inspections, Real Estate and Digital Farming



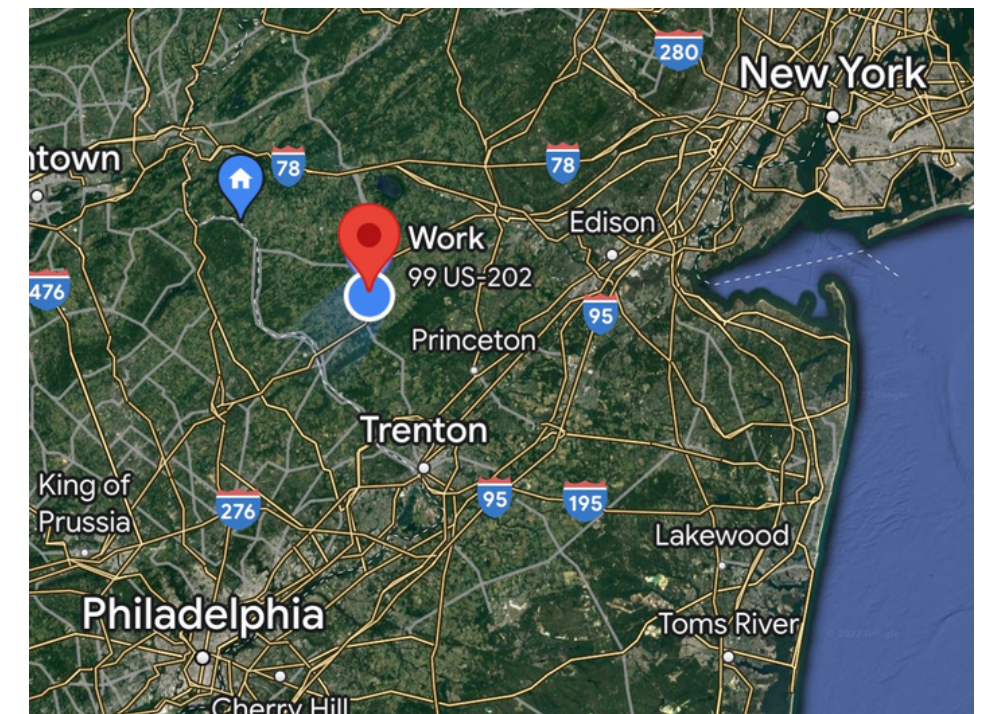


LOCATION AND FACILITY

Located in Hunterdon County (Central Jersey), we are the first drone school in the TriState Area (NY, NJ, PA) with the focus on how to become an FAA Certified Pilot In Command to enter into the commercial drone industry.

We can offer our drone training on site or on customer's site prior registration.

Along with our Drone Build, Control, and Program courses, we offer STEM programs, Drone Workshops, and one-on-one flight training at our 17 acres, fully insured private facility. Multiple courses are available from Commercial FAA 107 Certification to GIS and Digital Farming. Multi-rotor drones and flight equipment are provided by the academy or you may purchase your own drone.



DRONE COURSE CATALOGUE

- **FAA Part 107 Prep Course.**- 8hr, 2 sessions, on site, \$395, 7cr
- **Pilot in Command Ground School.**- 6hr, 2 sessions, on site \$295, 8cr
- **One on One Drone Training.**- 2hr, 1 session, on site, \$100 (\$50 extra hr) 2cr
- **Photogrammetry and 3D Mapping.**- 6hr, 2 sessions, on site \$295, 6cr
- **Storytelling - Intro to Aerial Photo and Videography.**- 6hr, 2 sessions, on site \$195, 6cr
- **Drones and Social Media.**- 4hr, 1 session, on site, \$150, 4cr
- **Drones as a Cinematographic Tool.**- 6hr, 2 sessions, on site \$395, 5cr
- **Drones for Real Estate.**- 4hr, 2 sessions, on site \$195, 4cr
- **Drone Roof Inspection.**- 4hr, 2 sessions, on site \$195, 4cr
- **Solar and Wind Farm Drone Inspection.**- 6hr, 2 sessions, on site \$395, 8cr
- **Law Enforcement Drone Training.**- 6hr, 2 sessions, on site, \$150, 10cr
- **FPV Build, Program and Fly Level 1 & 2 .**- 16hr, 4 sessions, on site, \$695, 12cr
- **Introduction to GIS.**- 5hr, 2 sessions, on site. \$195. 5cr
- **Digital Farming.**- 12hr, 3 sessions, on site, \$895, 12cr
- **Drone Consulting.**- 1hr, 1 session, on site or remote, \$100, 2cr
- **Books and training material:** \$100
- **FAA Part 107 Exam Fee:** \$170
- **FAA Exam Registration Fee:** \$75
- **Customer's Location Drone Training with Mobile Command Unit (Per Day)** \$750

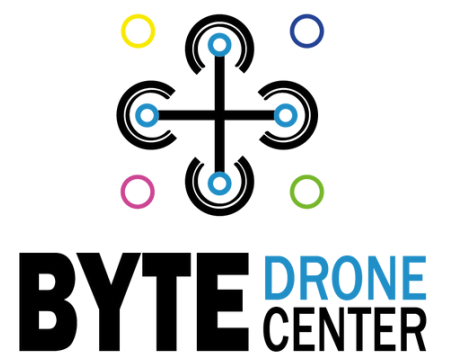


FAA PART 107 PREP COURSE

7 CREDITS

In order to fly drones commercially, you must pass the FAA 107 test. Our FAA Part 107 prep course. This Part 107 test prep course provides you with everything you need to know to pass the FAA Part 107 knowledge exam and get your commercial drone license. Online and physical training material. We provide all of the important and necessary FAA documents directly into our course for convenience. Practice tests. Your knowledge from the five modules will be put together in the cumulative course exam, which will finally get you ready for the FAA part 107 examination.

- Rules and Regulations
- Airspace and Sectional Charts
- Aviation Weather
- Loading and Performance
- Operations



PILOT IN COMMAND GROUND SCHOOL

8 CREDITS

This class is a hands-on drone pilot training with our fleet of trainer drones. Once the physical flight test is completed you will be issued a Commercial Pilot Flight Certification.

Learn the different components of your drone and how to properly care for them.

This course is designed for individuals looking to break into the dynamic UAS/drone service providing industry. The ideal candidate for this program is looking to start a small business or be a freelance drone operator. The commercial applications for UAS are seemingly endless, however, the majority of our students are looking to offer UAS/drone services for clients in industries like film/TV, Telecom, Utility and Energy Infrastructure, Construction, Mapping, Insurance, and many more.

The certificate of completion, along with passing the FAA Knowledge exam and obtaining your Remote Pilot In Command Certificate, will provide students with the credentials needed to help launch their career as a UAS/Drone service provider.



ONE ON ONE DRONE TRAINING

2 CREDITS

This 2 hours crash course, is a hands-on drone pilot training with our fleet of trainer drones. We show our students the basic theory and then we show them how to fly smart drones. The student will fly at least for 90 minutes assisted by one of our instructors.

This class is great for someone who has recently acquired a drone and wants to use it in the safest way. It is also a great course for team building, as an original gift or just to spend a couple of hours flying at our 17 acres facility.



PHOTOGRAMMETRY AND 3D MAPPING

6 CREDITS

Students will have a basic understanding of how to use drones to create 3D models.

Drones can provide great marketing material but that is just the tip of the iceberg. Create and share 3D as-builts, maps and orthophotos to update your clients and document progress. Software included.

Introduction to a variety of 3D modeling image capture tools.

Pix4D, Photoscan, Drone Deploy, and Maps Made Easy are examples of 3D model processing applications that students will learn about.

- How to plan a mission and create a 3D model using different software like Drone Deploy, Measure, Pix4D
- How to present a report to the client
- How to sell the project to a client
- Different business opportunities.
- What is Photogrammetry?
- Data Collection.- Overlaps, Nadir and Oblique Capture.

Student will be able to create a 3D map from scratch. Will be able to map a house, collect images and create a 3D model of a property and start its portfolio at the end of the course



DRONES FOR REAL ESTATE

4 CREDITS

Discover Drone Photography For Real Estate Tips To Ensure Your Success:

- What drone photography equipment is the best on a budget!
- How to get commercially drone certified easily!
- Specific drone photography settings to use for your drone!
- How to edit the drone photos fast and easily!
- How to send a downloadable link to the drone photos!

Great for beginners with no experience and even advanced photographers with years of experience.

- The course covers all the basics for those at the beginner level then gets into the advanced content for those with experience. Best drone equipment and how to use it.
- Drone camera settings to take professional real estate drone photography.
- How to edit your photos quickly and easily
- How to add drone services to your current photography business.
- How to deliver your photos to the client via a free hyperlink.
- How to send professional online invoices.
- Real estate drone photography tips for shooting angles and times of the day.



DRONES AND SOCIAL MEDIA

4 CREDITS

There are countless social networks worldwide that can assist you in connecting with people or businesses. Here are few to think about if you don't already have a social network of preference:

Learn how to edit and post your drone pics and footage in the most used social media apps.

In this 4 hours course, we show you how to shoot cool pics and videos and edit them from your phone using Video Editors such as Adobe Premiere Pro/Rush.

Learn how to post TikToks and IG reels on the best time and increase your amount of followers.

- Fast TikToks
- IG Reel design
- Adobe Rush
- Clubhouse Communities
- LinkedIn
- Facebook Drone Groups
- Twitter
- Discord Communities
- Reddit Communities
- LinkTree
- YouTube



DRONE STORYTELLING

6 CREDITS

For people who work in digital media, marketing, production, and a variety of other sectors, drone photography and videography have fast become indispensable tools. Professionals and laypeople alike can now access technology more easily as it advances. Add a new perspective to your photography: use drones to shoot aerial stills and dramatic panoramas. Create beautiful artwork for the office, capture a remodel or construction project, or shoot dramatic natural vistas from a bird's eye view. In this course, Rich Harrington and Francis Torres take to the skies using DJI Phantom and Mavic drones. They step you through the rules and regulations for drone flying, then explain preflight best practices, strategies for taking off and landing, and location scouting techniques. Rich and Francis highlight shooting strategies for single-image stills, multi-image panoramas, videos, and HDR images. They also show you Lightroom and Photoshop techniques for post-processing aerial images.

After that, we will show you how to create StoryMaps using ArcGIS. One of the most popular GIS software in the world. Storymaps are great to capture customers attention due to its friendly visualization.



DRONES AS A CINEMATOGRAPHIC TOOL

6 CREDITS

Application of Drones as a Cinematographic Tool

In this course you will learn:

- Use of Drones to execute cinematic shots for use on films and music videos.
- Learn the classic camera moves like panning, tilting , crane shots, dolly shots, hyperlapse and how to reproduce them with a drones and your phone camera
- Optics equivalent of drones to film optics

Student will learn:

Cinematographic moves

How to use drone in the film making

How to execute main camera moves for filmmaking

Technical aspects of Video Settings

Data Management

Benefit of the course:

Nowadays expensive classic camera moves can be substituted by Drone Filming that can reproduce traditional movements making it way more efficient and less expensive. In this course the student will learn how to become a Cinema Drone Operator He will understand direction to execute filming for specific cinematographic moves. Will learn now to appreciate camera moves in regular films and music videos.



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COMMERCIAL SOLAR AND ROOF INSPECTION

4 CREDITS

The roofing inspection sector is a terrific way to make money while also assisting others in ensuring that their structures are up to code. Roof inspections, on the other hand, can be dangerous at times, and there's a lot to know before jumping up on a roof and assessing its condition. On the other hand, solar energy has been increasing its numbers years after year. Everyday thousands of solar panels are being installed in every single State across America. The use of drones help identify several anomalies such as hotspots, diode malfunctions, cracked panels and some other system failures.

In this course Byte Drone Center will guide you on how to use drones to conduct roof inspections. You'll discover every specific you need to know about using a drone to execute a roof inspection, from comprehending the details of roofing systems to learning how to add value to your deliverables.

- Costs and Equipment setup
- Types of Roofs
- Pre flight and Fly
- Thermal Sensors
- Deliverables
- Marketing Strategy



SOLAR AND WIND FARM DRONE INSPECTION

8 CREDITS

Value of Drones for Solar Farm Inspections

- Quick and simple roof top and array scanning
- Geotagged image with hot spot diagnosis of damaged cells
- Diagnostic intent and panel placement planning
- Infrared signals reveal damaged panels.
- keep the solar farm operating as efficiently as possible
- Pre-selected way point aerial inspections can help you save time.

Value of Drones for Wind Farm Inspections

- Leading edge erosion
- Lightning strike damage
- Small cracks or splits along the bond joints
- Foreign object damage
- Very small cracks and light wear that can't be seen by scope
- UV radiation damage
- Fiber waves
- Pitch errors



LAW ENFORCEMENT DRONE TRAINING

10 CREDITS

What agencies need to know before implementing a public safety drone program.

How police can justify a drone acquisition to the public. Factors to consider when purchasing a public safety UAS. Drones have been used to help locate lost children and seniors who have wandered from their homes. Crime scenes and accident investigation sites are another area where UAS are useful. A UAS can map a crime scene much faster and probably more accurately than a human on the ground can. The UAS may reveal evidence that is invisible to those on the ground because of terrain features or other obstructions. The UAS may also be able to fly in weather conditions that would ground conventional aircraft.

- Drones as first responders.
- Aerial Thermography Basics
- Using drones for documentation
- A new 3D view for investigations.
- Crash reconstruction
- Crime scene processing
- Fire/explosion investigations



BUILD, PROGRAM AND FLY AND FPV DRONE

12 CREDITS

This complet course is about building and piloting FPV drones. We divide this training in 2 Levels.

Directly and in a simply way, we will build together a complete quadcopter. We will help you to choose all the components and necessary equipment, explain how each component works, give you tips to fly with safety and also record videos. You will quickly master a quadcopter construction and understand how it works. Then, we will teach you the basic controls, help you to fly your quadcopter, show you how to have fun with FPV systems (first person view) and we will also show you how to record HD quality videos with accessible cost equipment.

At Byte Drone Center you can:

- Practice your Freestyle FPV flying on our 7 acres facility with one of our experienced FPV pilots.
- Bring your friends to race on our newly built FPV outdoor race track.
- Build your own FPV drone from scratch. Learn how to assemble each working part of the drone as well as coding the remote control.
- Learn how to capture video using a FPV drone to present landscapes, scenery and subjects in a visually and aesthetically pleasing manner for cinematic purposes.



INTRODUCTION TO GIS

5 CREDITS

Students will first be given an introduction in GIS. **Understand the core concepts of Geographic Information Systems GIS and Remote Sensing (RS)**. Then students will take a look at using GIS within ArcGIS Pro and ArcGIS Online. Lastly, students will bring together all they have learned to create a short Story Map. Student will learn:

Organize, create, and edit geographic data. Manage, symbolize, and label map layers. Share maps and analysis results. Find content on an ArcGIS Online organizational site. Create and configure web maps. Create and share an ArcGIS StoryMap.

Benefits of the workshop:

Being able to understand the basics of GIS and RS will allow the student to relate data in any other sort of GIS platform. By being familiar with some of the ESRI applications, the students will be able to bring in raw data for analysis, create a working map from that data and share it online with others. Data visualization is key, which is why the StoryMap is so important.



DIGITAL FARMING

12 CREDITS

Drones are increasingly recognized as being fantastic tools for crop monitoring and plot research. This course focuses on the technical and practical requirements for collecting optical and multispectral data and how to use this data with AI software and its integration with spraying drones.

- Fundamentals of GIS, multispectral and optical mapping.
- Drone mission planning for agriculture use
- Best practices for data collection quality control
- Crop-specific field operations
- Optical and multispectral data processing and analysis
- Spraying drones
- Brands and models
- Regulation – FAA PART 137
- Integration



DRONE CONSULTING

2 CREDITS

One hour on site or zoom call where our team will respond all your questions and doubts regarding the drone industry. We have wide experience in the sector not just teaching, but also providing different drone services in several countries. We can guide you setting up your drone business showing you the different business models within the drone industry. We can help you choose what is the best drones according to your specific needs and we can also take care of the insurance and repairs in case needed.



C A L E N D A R

We are open from Wednesdays to Saturdays from 10am To 5pm.

We offer drone classes every week and our calendar changes every month. On Mondays and Tuesdays, we do private enterprise training on site or on customer's location.

On Sundays, we turn our 7 acres sample farm into an FPV Race Track where FPV drone pilots from NJ come and compete.

For scheduling your training send an email to info@bytets.com please.



BYTE DRONE CENTER CREDITS AND CERTIFICATION

TOTAL HOURS: 92

TOTAL CREDITS: 95

80 Credits: Byte Drone Center Proficient Drone Pilot Certification

60 Credits: Byte Drone Center Advanced Level Drone Pilot Certification

40 Credits: Byte Drone Center Intermediate Level Drone Pilot

20 Credits Byte Drone Center Apprentice Level Certificate of Completion

Create your own drone course combo amongst our vast catalogue, add some credits and get your Byte Drone Center Certification according to your needs.



DISCOUNTS AND PACKAGES

DISCOUNT TABLE

FAA PART107 + PIC = \$690 - 10% = \$621
FAA PART107 + PIC + 1 training = X - 15%
FAA PART107 + PIC + 2 training = X - 20%
FAA PART107 + PIC + 3 training = X - 25%
FAA PART107 + PIC + 4 training or more = X - 30%

5 or more students: extra 10% discount
10 or more students extra 15% discount

Example A - 24 credits:

FAA PART 107 (8cr) + Pilot in Command (6cr) + Law Enforcement (10cr) = \$885 - 30% = \$619.5
5 Students or more = \$619.5 - 10% = \$557.55 per student

Example B - 42 credits

FAA PART 107 (8cr) + PIC (6cr)+ 3D Mapping (6cr) + Build Fly More (12) Combo + Law Enforcement (10cr) = \$1,475 - 25% = \$1,106
10 students or more = \$1,106 - 15% = \$940 per student.

Note: Books, exam fees and registration are not included in the discounts.



WHY YOU SHOULD BECOME A DRONE EXPERT

Drones are extremely versatile and can be used in many different scenarios. From precision agriculture to shaping the young minds in STEM. Drones are at the forefront of technology. They allow jobs to be done in a safer, more controlled environment. Jobs or tasks that would have taken several hours can now be done in a quarter of the time cutting down on man hours. Whatever your drone needs might be, we are here to help achieve your goal with excellent customer service all with a hands-on approach. Allow us to help you achieve your vision.

Drones are being used in tons of fields such as insurance, construction, energy, safety, first responders, criminology, energy, telecommunications, agriculture, etc. – each of which demonstrates the broad range of commercial drone applications.

The FAA helped push commercial drone market growth forward by formulating a regulatory framework with its consumer drone registry. Now, drone manufacturers and tech suppliers are doing all they can to capitalize on this and turn drones into a full-fledged industry. Obtaining your FAA Part 107 drone pilot license it is just the starting point of this huge and innovative industry.



WHY YOU SHOULD BECOME A DRONE EXPERT

Once you've decided that you want to start your own drone program rather than hiring a service provider, it's time to think about what kinds of flights, also known as missions, you'll do. After all, the types of flights will impact the equipment you buy, software you use and what kind of data you can collect. You may decide that over the long run, your organization will be involved in multiple flight types from the list above. However in the early days it's helpful to start with one or two primary use cases and understand that your needs might change over time.

Byte Drone Center is the one stop shop where all your drone needs and questions can be solved. We have wide experience training several police departments, first responders, roof inspectors, Real Estate Agents and my other students that had taken advantage of our easy methods and field experience. Since 2020 we have a FAA Part 107 100% passing rate. We ensure each of our students feel comfortable with all the given information. We understand exams can be stressful, and that's why we go all the way with our students to make sure they have the total confidence of passing their exam.

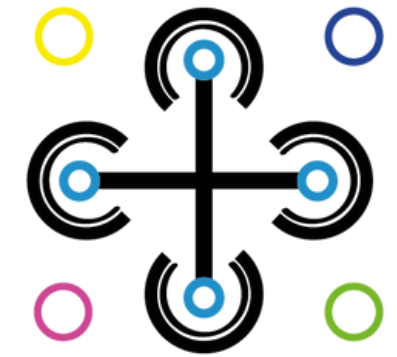


PHOTO GALLERY



OUR TEAM

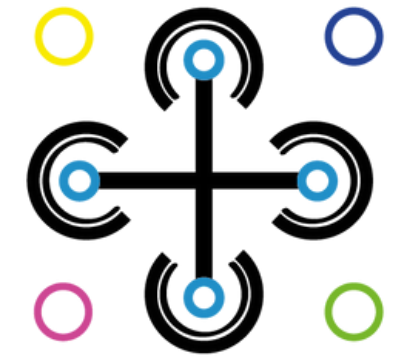
- **Dan Wicks.** FAA Part 107 certified drone pilot. Byte Drone Center General Manager. With a strong background in electronics, Dan has been focused in building, programming and repairing drones. He has worked at NJ Drone Academy since 2016 also teaching several of our drone courses and helping putting together drone programs for police departments and schools. Currently he is getting trained on spraying drones.
- **Megan Cope.** FAA Part 107 certified drone pilot. VP and GIS Specialist. Megan graduated from the University of North Carolina at Greensboro with a BA in Historical Archaeology and a BA in Classical Archaeology. She then went on to receive her masters in GIS/Remote Sensing. Completing her graduate internship at Syngenta, she was hired by Timmons Group to work as an embedded contractor with NCDIT-T. Megan has experience in GIS softwares such as the ArcMap, ArcGIS Pro, StoryMaps, and ArcOnline as well as ground truthing GPS devices. Working with large datasets, she is able to manipulate and process raw data into user friendly data visualizations.
- **Luis Escobedo.** FAA Part 107 certified drone pilot. CEO. Born and raised in Mexico City. BA International Relations. Studied in France. Has academic and work experience in 4 different continents. Has worked in the renewable energy industry since 2008 developing wind and solar farms working for German, French and Spanish companies. Developed from scratch to RTP or RTB more than 500 MW in wind and solar energy projects. Has coordinated drone inspections in 15 solar farms and 12 wind farms in 4 different continents. Pioneer in the digital farming industry. Founded AgroByte. Has done drone consulting to Federal Agencies.



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OUR TEAM

- **Matt Carroll.** FAA Part 107 certified drone pilot. Matt has been flying drone for 7 years. FPV drones are he's specialty. He's a freestyle pilot and loves chasing drift cars. Matt went to the art institute of Philadelphia for a Bachelor in Falmouth video production. He is a full time videographer, Photoghaper and drone pilot. You can find him always either flying he's drones or creating content.
- Tim Reinagel. **FAA Part 107 and FAA Part 137.** Agronomist focused in golf courses. Tim has been working as a golf course superintendant since 2010. He has put together a drone program for turf management using multispectral sensors and spraying drones .He is Part 107 and Part 137 certified. Tim has been collaborating with NJ Drone Academy and AgroByte since 2020 as a consultant for vegetation management.



BYTE DRONE
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PARTNERSHIPS





THANK YOU!

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