



PLANATE

MANAGEMENT GROUP

CORNERSTONE FOR SERVICE, INTEGRITY, AND INNOVATION

3D PRINTING

CAPABILITY STATEMENT



COMPANY OVERVIEW

- ▶ **18 years of excellence** since 2007 in delivering high-quality facilities management and support operations services worldwide as both a prime and sub-consultant.
- ▶ Headquartered in Alexandria, Virginia, with 9 satellite offices worldwide: Washington, Florida, Philippines, Kenya, Ukraine, Taiwan, Guam, Thailand and Papua New Guinea.
- ▶ A **robust team** of over 350 professionals worldwide.
- ▶ Successfully executed projects in **24 US states** and **25 countries** across five continents.
- ▶ Expertise in managing and executing multi-disciplinary projects, including **Architecture & Engineering, Facilities Planning, and Engineering Support.**
- ▶ **Expanding capabilities** in CBRNe Mailroom Design, Commissioning, and Training.
- ▶ Offering **24/7** on-site and reach-back support.

ABOUT US

This service is focused on providing end-to-end 3D printing and 3D scanning support for engineering and prototyping work. We help teams turn concepts, sketches, and CAD models into reliable physical components, ranging from simple fit-check parts and visual models to functional brackets, jigs, fixtures, and drone or robotics components. Using FDM/FFF 3D printing and engineering-grade materials and composites, we can tune prints for strength, dimensional accuracy, or surface quality depending on the application.

Beyond printing, we also support 3D scanning of broken or legacy parts so that they can be accurately reproduced, replaced, or redesigned. We provide guidance on design-for-3D printing, including file formats, wall thickness, clearances, and load paths, to reduce trial-and-error and improve print success rates. By combining print strategy, test runs, and iterative tuning, we aim to minimize prototyping timelines and give engineers a faster way to validate designs, test ideas, and move toward final parts or downstream manufacturing.

HIGHLIGHT AND SERVICES

Engineering-Grade 3D Printing

Supports both proof-of-concept pieces and parts intended for real-world use, ensuring reliable performance under load or repeated use.

Comprehensive Part Support

Covers concept models, fit-check prototypes, enclosures, jigs, fixtures, and drone/UAV/robotics components — from simple brackets to complex assemblies.

Precision FDM/FFF Printing

Print profiles are tuned for strength, dimensional accuracy, or surface finish, depending on the engineering requirement.

3D Scanning for Reproduction

Scans broken or legacy parts to accurately reproduce, replace, or redesign components for restoration or upgrade purposes.

Advanced Materials & Composites

Uses engineering-grade polymers and composites tailored to specific strength, temperature, and flexibility needs.

Concept-to-Prototype Development

Covers print strategy, test runs, and iterative tuning to achieve optimal print orientation, infill density, and mechanical balance.

Functional & Structural Fabrication

Produces durable jigs, fixtures, brackets, and mounts suitable for lab, field, and mechanical testing environments.

Post-Processing & Finishing

Includes support removal, sanding, basic surface finishing, and assembly prep to make parts ready for fitting, testing, or presentation.

Prototyping Timeline Minimization & Support

Defines file formats, wall thickness, clearance, and load paths optimized for printability and reduced design rework, helping shorten development cycles through fast iteration, clear feedback on print outcomes, and ongoing coordination from initial concept to final prototype.

PAST PERFORMANCES

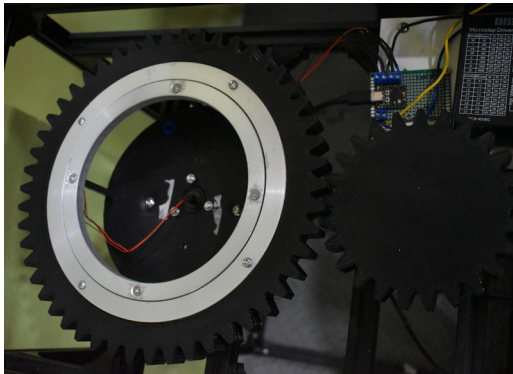
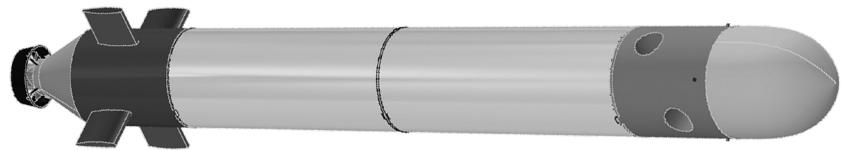
WORKING 3D-PRINTED DRONE (COMPANY PROJECT)

Our team successfully completed an end-to-end 3D-printed drone project with the following scope:

- ▶ Procured a proven drone airframe design from a European supplier
- ▶ 3D printed the full airframe using in-house printers and optimized settings
- ▶ Sourced and integrated all electronic and mechanical components (motors, ESCs, flight controller, power system, etc.)
- ▶ Assembled the complete drone and performed system integration
- ▶ Conducted calibration, ground testing, and multiple test flights
- ▶ Fully documented the build process, configuration, and test results for future replication and improvement

R&D PROTOTYPES

Support Equipment for Various Prototypes i.e. mailroom system, underwater drone



OFFICE LOCATIONS

ALEXANDRIA
1800 Diagonal Road, Suite 600, Alexandria VA, 22314

FLORIDA
3361 Rouse Road, Suite 200, Orlando, FL 32817

WASHINGTON
Columbia Center 701 Fifth Ave. Suite 4200 Seattle WA 98104

PHILIPPINES
• Subic Bay
Unit 2-6 Subic Creative Center Building, Manila Ave cor Dewey Ave, CBD Area Subic Bay Freeport Zone 2222
• Cagayan Valley
11p Invierno Commercial Building, Dupaya Street, Bagumbayan, Lal Lo, Cagayan 3509

TAIWAN
3F., No. 366, Changchun Rd. Taipei City, 104706

KENYA
Waiyaki Way- Red Hill Link Road Nyari South Estate, Ngecha Road, House No. 28

THAILAND
10th Floor, RSU Tower, 571 Sukumvit Road, Bangkok 10110 Thailand

UKRAINE
7 Volodymyrska St, Ste 1, Kyiv 01001, Ukraine

GUAM
Core Pacific Commercial Building 545 Chalan San Antonio Suite 302, Tamuning, Guam 96913

PAPUA NEW GUINEA
Section 14 Lot7 Matirogo Street, 2 Mile, National Capital District, Moresby South, Papua New Guinea

PLANATE MANAGEMENT GROUP A Service-Disabled Veteran-Owned Small Business

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