

Kingston Nguyen

Systems Engineer, Uncrewed Land and Air

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📍 College Park, MD 20740

STRENGTHS

- 🔧 **Requirements clarity**
Turned mission objectives into traceable requirements, and reviewers could follow each decision through design evidence.
- 🏗️ **Architecture modeling**
Built MagicDraw views for functions and interfaces. Faculty reviews became more focused after model gaps were visible.
- ✅ **Verification planning**
Mapped requirements to practical verification methods and expected evidence, giving teams a clearer path from review to test.
- ❤️ **Test analysis**
Compared logged behavior with acceptance criteria and documented anomalies. Teammates relied on findings during later design discussions.
- 👥 **Team communication**
Presented technical findings across software, electrical, and mechanical perspectives, helping peers resolve issues with shared context.

SKILLS

Systems Engineering

Requirements Analysis

Requirements Development

Requirements Decomposition

Requirements Traceability

System Architecture

Model Based Systems Engineering

DOORS JIRA MagicDraw

Integration and Test

Verification Planning

Test Procedures

SUMMARY

Early career **systems engineering** candidate completing a Bachelor of Science in Systems Engineering in 2027, with supervised academic experience across uncrewed land and air concepts. Translates stakeholder needs and mission objectives into structured, traceable requirements, then connects **architecture models** with integration, verification, testing, and evidence. Builds MagicDraw models, manages records in DOORS and JIRA, prepares **integration and test** procedures, and analyzes data from mobility and communications demonstrations. Academic work spans sensing, control, communications, power, software, electrical, mechanical, and electromechanical interfaces. Presents findings clearly during design reviews and research seminars, helping interdisciplinary teams resolve discrepancies and maintain alignment across system artifacts. U.S. citizen with eligibility to obtain a security clearance, available for on site work and **travel up to 15%**.

EDUCATION

Bachelor's Degree in Systems Engineering

University of Maryland, College Park 🎓 GPA: 4.0 📅 2027 📍 College Park, MD

Coursework: Systems architecture, requirements engineering, model based systems engineering, verification and validation

TECHNICAL SKILLS

- **Requirements Tools:** DOORS, JIRA, requirements traceability
- **Architecture Modeling:** MagicDraw, system architecture, interface modeling
- **MBSE Methods:** model based systems engineering, functional decomposition, operational modeling
- **Verification Methods:** analysis, inspection, demonstration
- **Test Engineering:** integration testing, test procedures, acceptance criteria
- **Data Analysis:** test data analysis, anomaly review, evidence analysis
- **Uncrewed Systems:** uncrewed land systems, uncrewed air systems, mission workflows
- **Systems Engineering:** requirements development, requirements derivation, life cycle alignment
- **Interface Engineering:** system interfaces, subsystem interfaces, data exchange
- **Engineering Collaboration:** design reviews, interdisciplinary engineering, technical presentations
- **Configuration Planning:** test configurations, integration sequencing, result recording
- **Engineering Domains:** software systems, electrical systems, mechanical systems

EXPERIENCE

Uncrewed Systems Engineering Capstone Student

Capstone Project 📅 August 2026 - Present 📍 College Park, MD

Supports a faculty supervised uncrewed ground vehicle capstone from stakeholder analysis through architecture, integration, verification, and test data review. Coordinates technical artifacts across sensing, control, communications, power, and mechanical workstreams.

- Defined stakeholder needs and mission scenarios, producing structured **system requirements** for faculty design reviews.
- Built MagicDraw architecture views, allocating functions across sensing, control, communications, power, and mechanical elements.
- Linked needs, **derived requirements**, architecture elements, and **verification methods** in a DOORS training environment.
- Prepared integration procedures and **test configurations**, clarifying expected results and required **verification evidence**.
- Analyzed mobility and communications **test data**, documenting anomalies and recommending next design actions.
- Tracked technical issues and review actions in JIRA, improving ownership and closure evidence across disciplines.

Test Data Analysis

Uncrewed Systems

LANGUAGES

English Native

Vietnamese Proficient

MY CAREER



Uncrewed Systems Engineering Capstone Student at Capstone Project (2 Months)

Model Based Systems Engineering Research Student at University Research Lab (4 Months)

Systems Integration and Test Laboratory Student at Student Lab (3 Months)

Model Based Systems Engineering Research Student

University Research Lab 📅 January 2026 - May 2026 📍 College Park, MD

Conducted supervised research on a small uncrewed aerial system mission workflow, connecting requirements, functional behavior, interfaces, models, and verification evidence. Shared findings with a student research group and seminar audience.

- Modeled an uncrewed aerial system mission workflow, connecting operational activities with functional behavior.
- Derived lower level requirements from a mission specification, documenting rationale and engineering constraints for reviewers.
- Created **MagicDraw** diagrams for operational activities, functional decomposition, and key system **interfaces**.
- Recorded model discrepancies and review comments in **JIRA**, supporting repeatable resolution before demonstration.
- Drafted a verification matrix, mapping requirements to analysis, inspection, demonstration, or test methods.
- Presented traceability gaps during a research seminar, improving consistency across project artifacts.

Systems Integration and Test Laboratory Student

Student Lab 📅 September 2025 - December 2025 📍 College Park, MD

Completed supervised laboratory integration and verification work across software, sensor, and electromechanical components. Converted supplied requirements into repeatable checks, **test procedures**, evidence packages, and risk discussions.

- Integrated software, sensor, and electromechanical components on a supervised laboratory platform.
- Translated supplied requirements into measurable checks for **interfaces**, data exchange, and functional behavior.
- Authored **integration and test** procedures covering setup, configuration, execution, outputs, and result recording.
- Analyzed **test data** across configurations, comparing observed behavior with acceptance criteria and documenting discrepancies.
- Tracked failed checks through retest, creating clear evidence of issue resolution in final laboratory records.
- Delivered a multidisciplinary briefing connecting requirements, **integration** observations, test evidence, and technical risks.

PROJECTS

Uncrewed Vehicle Verification Framework 📅 2026

Created a structured verification framework for an academic uncrewed vehicle concept. Connected stakeholder needs, derived requirements, architecture elements, test methods, configurations, expected results, and evidence for review.

Aerial Mission Architecture Study 📅 2026

Developed a model based study of an uncrewed aerial mission. Used operational activities, functional decomposition, interface analysis, and traceability reviews to clarify system behavior.

LEADERSHIP & AWARDS

- Dean's List recognition, 2025
- Undergraduate Systems Design Scholarship, 2026
- Capstone Preliminary Design Review Recognition, 2026

CERTIFICATIONS

- Model Based Systems Engineering Fundamentals 📅 2026
- Jira Fundamentals 📅 2026

PROFESSIONAL AFFILIATIONS

- Systems Engineering Peer Mentor, 2026

- Student Uncrewed Systems Design Team Member, 2025 - Present
- Engineering Design Review Volunteer, 2026

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST