

Anvitha Nachiappan

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Portfolio: <https://anvitha-nachi.vercel.app/>

EXPERIENCE

SYSTEMS ENGINEER | MITRE (Active TS/SCI)

Sep 2023 – Present

- Anomaly Detection Tool: Owned product definition and delivery of an ML-enabled prototype by driving UX design, wireframing, defining data requirements, and aligning data science and development teams
- Model Base Systems Engineering: Modeled mission-specific end-to-end user journeys to map events, ownership, data flows, and timing dependencies needed to achieve target operational outcomes
- Autonomy Strategy: Delivered an enterprise-level strategy enabling autonomous Air Force operations by translating insights from 45 user interviews with 120+ operators, leaders, and domain experts informing organizational, technical, and operational decision-making

SUMMER ASSOCIATE | Institute for Defense Analysis

May 2022 – Aug 2022

- Employed advanced stats to determine an optimal calculation method for part demand rates on naval aviation systems
- Developed a replicable data analysis pipeline using R supporting the sustainment team

UNDERGRAD RESEARCHER | M3Lab & COGENT Lab

Aug 2020 – May 2022

- Presented research on AR Head-up Displays, developing new measures of effectiveness on novel user interfaces at IISE Conference 2021
- Conducted human subjects study with 20 participants evaluating effects of system reliability and transparency on driver performance and trust in automated vehicles

NAVSEA INTERN | Naval Sea System Command 05D1

Sep 2020 – Apr 2022

GRADUATE ASSISTANT | CEED

Aug 2020 – May 2022

PROJECTS

MIXED REALITY SAFETY TRAINING | Abbott Nutrition

Aug 2021 – May 2022

- Developed a Mixed Reality Safety Training module utilizing the HoloLens and Microsoft Guides

DESIGN TEAM MEMBER | Team Juvo

Aug 2018 – Apr 2019

- Designed a custom assistive device enabling computer access for a user with C4 spinal cord injury; 1st Place winner, SourceAmerica National College Design Challenge

EDUCATION

VIRGINIA TECH | Blacksburg, VA

2023 M.Eng. Human Factors Engineering and Ergonomics

2022 B.S. Industrial and Systems Engineering | **Minor:** Computer Science

SKILLS

Tools & Software: Tableau, MATLAB, Sketch, Cameo, iGrafx, RStudio, SIMIO, @RISK

Programming & Modeling Languages: Python, R, SysML, Java

Certifications: Six Sigma Green Belt