

# Aayush Kapar

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[akapar2016.github.io](https://github.com/akapar2016)

## Aviation

FAA CPL AMEL w/Instrument Complex, High Performance, Tailwheel

Hours: 425 PIC:325 XC:170 Night:66 Instrument:56 Rotor:52

Types: PA28, C172, PA44, J-3, DA42, PA16, PIAT, PIVE, G2CA

## Skillset

Aircraft Systems, Development Assurance Processes, Human Factors, Avionics Certification

**Engineering:** Aviation Data Protocols, Atlassian(Jira, Confluence), Jama, Polarion, DOORS, SVN, GIT, Perforce, ALM Octane

Network Systems, Java, VB, C#, C++, JS, Python, SQL, WPF, Visual Studio, 3D CAD, Adobe Suite

## Experience

### Beta Technologies

Feb 2024 - Present

*Team Member - Systems Engineering*

- Assist in integration testing and troubleshooting of G3000 PRIME avionics and power generation/distribution hardware
- Participate in CX300 system architecture and design development for low-voltage, high-voltage, avionics, flight-controls, and monitoring systems
- Contribute to low and high voltage system level certification plans for CX300

### Garmin International - Aviation

Jul 2020 - Jan 2024

*Aviation Systems Engineer - Developer Assurance*

- Program Coordinator and System Test Lead for “Flight Leading Edge” and “Leading Edge” responsible for internal bench and flight testing of integrated avionics systems
- Led G3000 PRIME first flight including flightworthy testing, installation, and test card preparation
- Managed internal flight test configuration and testing for human factors needs
- Project Lead for Simplified Vehicle Operations roadmap and vision definition tasks focused on validating high TRL level functions with certification barriers to determine path forward
- Systems representative for Weather Radar and multiple other product concepts
- Contribute to software development of systems testing tools and Garmin Network Capture Device

### Avidyne Corporation

May 2019 - Jul 2020

*Software Development Intern*

- Developed test libraries for IFD lineup for DO-178 standards using VB6 with Perforce
- Created new software testing environment in .Net with VSTA integration using C#
- Developed and ran test scripts for IFD upcoming software updates

### Dynon Avionics

May 2018 - Aug 2018

*Software Development Intern*

- Developed GUI application to stimulate EFIS data from Flight Simulator X/user in C# WPF
- Developed UI components of Electronic Flight Information System(EFIS) in C++
- Coordinated code with programming team with remote members following agile methodology

### Florida Institute of Technology (FIT)

*Aviation Specific Courses*

Air Traffic Control

Aviation Law

Aviation Weather

Aviation Safety

Human Factors

Airline Operations

Aircraft Operations

Aviation Security

*Aviation Research*

- Co-authored “Prevalence of Invulnerability in Collegiate Part 141 Flight Students” paper. Presented at NTAS
- Gained knowledge in qualitative research methods and requirements

## Education

### Florida Institute of Technology (FIT)

May 2020

*BS Aeronautical Science w/Flight, AA Flight Operations and Dispatch*

Collegiate Part 141 Flight Training (Qualified for R-ATP 1000hr)

Minor in Computer Science and Unmanned Aerial System Applications

## Personal Projects

### The Kidney Action - Documentary

Co-produced, directed, and edited feature length documentary about kidney trafficking in Nepal and presented in multiple movie theatres in Nepal

### Impact of Motivation on Development of Technology

Researching the impact of intrinsic motivation on development of technology focused on adaptation of the world wide web