

Aayush Kapar

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Aviation

FAA CPL AMEL w/ Instrument Hours: 250 total 177 PIC 111 XC 57 Night PA28, C172, PA44 Class II Medical

Skill Set

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

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

Agile Development, Network Systems, Java, VB, C#, C++, HTML, JS, Python, WPF, Visual Studio, 3D design, Adobe Suite

Education

Florida Institute of Technology (FIT)

Melbourne, FL

May 2020

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

GPA 3.7/4.0

Minor in Computer Science and Unmanned Aerial System Applications

Experience

Garmin

Olathe, KS

Jul 2020 - Present

Aviation Systems Engineer - Developer Assurance

- Project Lead for Simplified Vehicle Operations roadmap and vision definition tasks
- Program Coordinator and System Test Lead for “Flight Leading Edge” and “Leading Edge” responsible for internal bench and flight testing of integrated avionics systems
- Diagnose integration issues and coordinate with component-specific teams to resolve
- Systems representative for Weather Radar and multiple other product concepts
- Contribute to software development of systems testing tools and Garmin Network Capture Device (GNCD)

Avidyne Corporation

Melbourne, FL

May 2019 - Jul 2020

Software Development Intern

- Developing test libraries for IFD lineup for DO-178 standards using VB6 with Perforce for source control
- Creating new software testing environment in .Net with VSTA integration using C#
- Developing test scripts for IFD upcoming software updates

Dynon Avionics

Woodinville, WA

May 2018 - Aug 2018

Software Development Intern

- Developed GUI application to stimulate EFIS data from Flight Simulator X/user in C# WPF using Visual Studio
- 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)

Melbourne, FL

Aviation Specific Courses

- Air Traffic Control
- Human Factors
- Aviation Safety
- Airline Operations
- Aviation Weather
- Aircraft Operations
- Aviation Law
- Aviation Security

Aviation Research

- Gained knowledge in qualitative research methods and requirements
- Co-authored “Prevalence of Invulnerability in Collegiate Part 141 Flight Students” paper. Presented at NTAS 2020

Software Engineering Course

- Contributing to open source project OBS studio developed in C++
- Developing in a team following Agile methodology with GIT for source control

Student Administrative Assistant for Link Foundation Fellowship - College Of Aeronautics

Jan 2019 - May 2020

- Manage contact databases and create advertising media using Adobe Creative Suite
- Assist Administrator with business correspondence

Audio Visual Lighting Technician – Gleason

Oct 2017 - Dec 2019

- Executed lighting setup and programming using showXpress
- Implemented network systems to interconnect lighting, audio, and video equipment

Florida Tech Media Productions Student Organization (FITV) - Tech Director

- Developing network system for video production with rendering nodes relying on Adobe Creative Suite
- Lead technological aspects of the organizing including film festival

Personal Projects

The Kidney Action

Nepal

Jan 2015 - Aug 2016

Documentary (<https://tinyurl.com/rr5ygnj>)

- Co-produced, directed, and edited feature length documentary about kidney trafficking in Nepal
- Competed in national documentary competition and was premiered in several movie theaters in Kathmandu
- Edited using Adobe Premiere pro, Audition, and After Effects

Impact of Motivation on Development of Technology

Jan 2015 - Aug 2016

Ongoing Research Paper (<https://tinyurl.com/wy7flxa>)

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

Honors & Memberships

- Drone Club – Secretary
- Kit Club – Social Media Coordinator
- Panther Fund Merit Scholarship
- Dean's List
- IEEE - Institute of Electrical and Electronics Engineers
- AIAA - American Institute of Aeronautics and Astronautics
- ACM - Association for Computing Machinery
- Outstanding Student of the Year Award 2019, 2020