

MAN JUN KOH

manjunkoh.com

(010) 9466-3989 ◇ mjk18@vt.edu

EDUCATION

B.Sc. in Aerospace Engineering

August 2014 - May 2019

Equivalent of Minor in Computer Engineering

Virginia Tech, In-Major GPA: 3.48/4.00

EXPERIENCE

Space@VT

Fall 2016 - Spring 2018

Student Researcher

- Worked with a Masters student in applying computer vision to classify objects in satellite imagery; wrote software in Python using the Keras library and classified objects like ships in satellite images of the San Francisco Bay
- Worked alongside a PhD student and a Masters student to construct an autonomous satellite tracking system; designed a mount and used stepper motors and an Arduino to aim a telescope at satellite positions that were predicted using Matlab and STK

Rocketry at Virginia Tech

Fall 2016 - Spring 2018

Design Team Member

- Using Matlab, worked with other undergraduate students to dynamically model a high-powered rocket and develop algorithms for reaching an altitude of 10,000 feet for the Intercollegiate Rocket Engineering Competition
- Designed the nozzle of the rocket with Matlab as part of the hybrid propulsion team

Korean Cultural Volunteer Outreach Program

Fall 2011 - Spring 2014

Volunteer

- Educated American citizens about Korean culture; spoke to audiences.
- Published several books about Korean Folktale and Poems.
- Awarded the President's Volunteer Service Award.

SKILLS

Languages: C/C++, Python, Matlab, JavaScript (React)

Operating Systems: Linux (LPIC-1 Certified), Windows 10

Miscellaneous: Visual Studio, Raspberry Pi, Github, CMake, Vagrant, VirtualBox

AREAS OF STUDY

Spacecraft GPS Positioning, Navigation, & Timing

Kalman & Particle Filtering

Air & Space Vehicle Dynamics

Fluid Mechanics

Numerical Methods

Data Structures and Algorithms

Microcontroller Interfacing

Applied Software Design (Qt, Threading)

Computer Org & Architecture

Network Application Design