# Arjun Gopal Krishna

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## Education

**Stevens Institute of Technology**
**Master of Engineering in Mechanical Engineering** (Robotics & Control) - May 2020          **GPA:** 3.567
**Bachelor of Engineering in Mechanical Engineering** (Mechatronics Concentration) - May 2019   **GPA:** 3.385
Honors: Edwin A. Stevens Scholarship, Kaminski Scholar, Dean's List, Graduated with Honors

**Brooklyn Technical High School**
Advanced Regents High School Diploma - June 2015          **GPA:** 3.7
Brooklyn Technical High School - Electro-Mechanical Engineering Major Diploma
Career and Technical Education Certification

## Employment / Internships

- **Masten Space Systems - Mechanical Engineer (XL-1 Lunar Lander, Structures Engineering Team)**
  - Used Solidworks to design Inverted Tripod Landing Gear for the XL-1 as well as critical structural components, performed manual and digital FEA on structural components, and created engineering drawings using GD&T as per ASME Y14.5
  - Designed and analyzed payload interface mounts for the Heimdall Descent Imager Camera, Heimdall Workspace Imager Camera, and Star Tracker Optical Sensors on the XL-1
  - Designed the interface mounts for the six TALOS-150 thrusters on the XL-1
  - Created technical subsystem documents pertaining to the primary structure of the XL-1
  - Coordinated with vendors and machine shops for quoting, cost, and lead times for manufactured parts and negotiated pricing
- **Stevens Institute of Technology - Teaching Assistant for ME-554 Intro to CAD (CREO/ProE)**: (Spring 2020)
- **Stevens Institute of Technology - Teaching Assistant for E120 Engineering Graphics:** Dealing with an introduction to Solidworks as a design / engineering tool (Fall 2017, Fall 2018, Fall 2019)
- **Stevens Institute of Technology PROOF Laboratory (Internship)**: Research on the development of a humanoid balancing reaction system for a bipedal robot: Summer 2014 (Developed skills in 3D printing and optimization)
- **NYU Polytechnic Institute Control/Robotics Research Laboratory (Internship)**: Research on a Solar Hydrogen Electric Drone for Air Sampling: Summer 2013 (Developed skills in data collecting, technical writing, presentation)

## Skills

- **Software:**
  - Certified in Autodesk Inventor Professional
  - Proficient in Solidworks, Creo/ProE, Makerware, ReplicatorG
  - MATLAB / Simulink / Simscape, ANSYS, G-Code, Arduino C/C++, Arena Simulation
  - Microsoft Office: Excel, PowerPoint, Word
  - Google Drive: Sheets, Slides, Docs
  - Familiar with LabView, Motion Analyzer
  - Camtasia Video Editing Software, Garageband, LogicProX, Audacity, Inkscape

- **Machinery:** Experienced with Computer Numeric Control (CNC) Mill, CNC Plasma Cutter, Lathe, Drill Press, Hand Power Tools, Belt Sander, Band Saw, Makerbot 3D Printer, Flashforge Creator Pro 3D Printer, Soldering, Heat Gun

## Academic Experience

- **NASA's 2019 RASC-AL Special Edition: Moon to Mars Ice and Prospecting Challenge (Project Name: _DEIMOS_)**
  - Team was selected as one of the 10 finalists to compete at Langley Air Force Base in June 2019
  - Awards: 2nd Place Overall, Cleanest Water, Most Accurate Digital Core
  - Responsible for CAD, manual machining, CNC machining, assembly, budgeting, technical writing, technical presentations, cinematography
- **Brooklyn Tech FRC Robotics Team: 334 "TechKnights": 2011-2015**
  - Captain during the 2015 Season. Designed and built custom transmission.
  - 2014 Winners of the NYC Regional, and 2014 World Championship Division Finalists
  - Lead CAD Designer and Lead Strategist: 2013-2015
- **Josh Weston Research Scholars Program at Brooklyn Tech: 2012-2015**
  - Competed in the NYCSEF competition in 2013, 2014, and 2015

## Personal Projects

- Designing, Building, and Flying Quadcopters (250mm racing FPV Quadcopters, DJI drones)
- Investing in the stock market (utilizing covered calls, puts, spreads, limits) / teaching others how to invest
- Composing music with the ukulele, guitar, and bass through Garageband and publishing via Soundcloud and Spotify