

Japnit Singh Sethi

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EDUCATION

Master of Engineering in Computer Engineering **May 2021**
Focus Area: Software, Controls and Machine Intelligence

Bachelor of Science in Mechanical Engineering **May 2019**
Virginia Polytechnic Institute and State University *Blacksburg, VA*

WORK EXPERIENCE

The International Voice **Blacksburg, VA**
Founder & Host *June 2020 - Present*

- Created a social platform to share raw journey of 12+ International Tech Leaders with varied domain expertise
- Tested acquisition channels like LinkedIn, and Youtube resulting in 100x follower growth in 3 months

TMEIC **Roanoke, VA**
Systems Engineering Intern *May 2020 - Aug 2020*

- Created a complete functional document on Rubber Tyred Gantries as a reference for 44% of TMEIC employees
- Commented and provided an algorithmic structure to the C++ source code of EGD networking protocol

Autonomous Systems and Controls Lab **Blacksburg, VA**
Graduate Research Assistant *July 2019 - Dec 2019*

- Optimized AUV state-space model for improved prediction of pitch and yaw axis data using Matlab
- Assembled, calibrated and operated AUV for field trials with 60% success rate

VVF LLC **Kansas City, KS**
Engineering Intern *May 2016 - August 2016*

- Improved week over week soap packaging efficiency by 18.5% by troubleshooting automated packaging line
- Created OSHA compliant directional flow maps for 15 pumps in the soap production facility

PROJECTS

AgBOT *August 2018 - May 2019*

- Won first place in AgBot Mining for Microbes and Micro-fauna competition against 20 international teams
- Led storage and filtration sub-team from ideation to completion using custom verification and validation plans
- Designed 15+ CAD models with explosion drawings and assembly animations in Siemens NX

Semi-Autonomous Underground Vehicle *January 2019 - May 2019*

- Delivered food items using semi-AUV by implementing ROS software packages with 9% time to spare
- Debugged and implemented ROS packages for vision sensors in python and C++

LEADERSHIP, AWARDS, AND CERTIFICATIONS

- International Undergraduate Speaker for Virginia Tech, Class of 2019
- Engineer in Training (Mechanical) # 0420072322 *July 2019 - Present*
- Resident Advisor (Scholarship), Virginia Tech *January 2017 - May 2019*
 - Planned and implemented programs to assist 150+ diverse group of students over a span of 3 years
- First-Year Orientation Leader, Virginia Tech *June 2017 - August 2017*
 - Conducted 14 sessions about campus resources for 280+ incoming freshmen in one month
- Event Manager, Indian Students Association *August 2015 - August 2017*
 - Organized 6+ cultural events with an average budget of \$2500

TECHNICAL SKILLS

- **Programming Languages:** C/C++, MATLAB, Python
- **Softwares:** ROS, SolidWorks, Siemens NX, ANSYS, KiCad
- **Version Control:** Git