

PERSONAL INFORMATION



Krunal Patel

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Sex Male | **Date of birth** 24/08/1992 | **Nationality** India

WORK EXPERIENCE

JANUARY 2022-Present

Ground System Controller at DLR GSOC

Telespazio Germany GmbH. Munich, Germany

Skills

- Monitoring and control of software system infrastructure for real time Spacecraft Operations for Low Earth Orbit Satellites
- Monitoring of data, health check of the equipment, preparation and performance of operations following established procedure and verification results
- Processing of all Satellite tracking data
- Planning activities for emergency supports
- Regular maintenance of computer systems in control room
- Assistance to On-call personnel in troubleshooting
- Anomaly reporting
- Trained as a ground station operator to manage complex systems for multi-mission 15-meter tracking antennas, up- and down converter, high power amplifier etc. (Ground Segment)
- Basic knowledge of MCS system (SCOS)

JUNE 2021- JANUARY 2022

System Engineer

Informasistemi S.P.A. Rome, Italy

Skills

- TCP/IP, LAN/WAN Technologies
- Network Administration, Virtualization, Netgear switching and routing
- IT Infrastructure and Design
- Linux server, Raspberry pi
- Hands on experience on Debian, CentOS, Raspbian OS
- Storage Technologies (SAN/NAS)
- Office software and Technologies
- Zabbix and Nagios Networking Tool configuration and monitoring

OCTOBER 2017- JUNE 2021

NOC Operations

iKO Media Group SRL Rome, Italy

Worked as NOC Analyst and Incident Responder with more than 3 years of experience in monitoring operations and performance of network systems as well as identifying and solving related technical issues. Performed system administration functions, including network security as well as provided end-user support up to 2nd Level.

Skills

- Managing, Monitoring and Troubleshooting day to day NOC operations and Incidents 24/7 which includes rotational shifts.
- Initiating and resolving incident management tickets for the hardware, software, Network malfunctioning
- Providing Level-I and II support for 300+ services including trouble shooting and helpdesk support for all clients and partner teleports globally.
- Basic Networking routing and switching protocols like IP Addressing, FTP, Telnet. HTTP and different Network Layer Protocols, Router and Firewall, Network Gateways and Security.
- Operating Linux Based Servers.
- Conducting network surveillance with the help of Data Miner for monitoring services and Zabbix Networking tool for monitoring the network devices and switches.
- Responsible for making Network Diagrams and service routes using Microsoft Visio advance level.

EDUCATIONAL TRAINING

SEPTEMBER 2016- MARCH 2020

Special Master of Science in Aerospace Engineering
Sapienza University of Rome, Italy

GPA:100/110

JULY 2010 – JUNE 2014

Bachelor of Engineering in Mechanical Engineering
Gujarat Technological University, Ahmedabad India

GPA:6.84/10

PROJECTS & COURSEWORK

Global Attitude control of Earth pointing spacecraft [\[see project\]](#)

Master Thesis

- Global Control of Inertial pointing spacecraft based on La Salle's theorem
- Global Control of Inertial pointing spacecraft based on Lyapunov theorem
- Earth pointing problem
- Simulation of Earth pointing problem on MATLAB
- Language & Knowledge Inferred: **MATLAB and Simulink, Monte-Carlo Studies**

SKILLS AND INTERESTS

- **Programming Languages:** MATLAB and Simulink
- **Modelling Analysis Software:** Ansys and SolidWorks
- **Networking tools:** Cisco Packet Tracer, Zabbix, networking monitoring tools like NfSen, Netgear Switching and Routing.
- **Operating System:** Windows, Linux & expertise in the areas of satellite and telecommunications and system administration.
- **Web Technologies:** Salesforce CRM (Customer Relationship Management) Software, Dataminer, Jira (Requirement Management Software), Agile Frameworks
- **Interests:** Spacecraft Attitude Control Systems, Requirement Management (Jira), Numerical Modelling of Structure, Incident Management, Incident Response, Monitoring and Networking.

LANGUAGES KNOWN

English (Fluent), **Italian** (A1 Level), **German** (A2 Level), **Hindi** (Fluent), **Gujarati** (Mother Tongue)

CERTIFICATIONS

- **Spacecraft Operations** Training at DLR
- **IBM:** Cybersecurity Compliance Framework & System Administration
- **IBM:** Cybersecurity IT Fundamentals Specialization
- **IBM:** Cybersecurity Roles, Processes & Operating System Security
- **IBM:** Cybersecurity Tools and Cyber Attacks
- **REDHAT:** Fundamentals of Red Hat Enterprise Linux
- **Atlassian:** Agile with Atlassian Jira