

SATINDER PAL SINGH SANDHU

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SUMMARY

BCIT Digital Forensics and Cybersecurity student (88.5% GPA) with hands-on experience in full-stack and mobile development, mechatronics, IoT and IT troubleshooting. CompTIA A+ certified, Network+ in progress. Strong interest in vulnerability management, endpoint security, IAM, and enterprise security operations.

EDUCATION

BCIT — B.Tech Forensic Investigation (Digital Forensics & Cybersecurity) *Expected 2027*

- Ranked among the top of class. Coursework: Network Security, Digital Forensics, Incident Response, Systems Admin, Scripting

PEC University of Technology — B.Tech Mechanical Engineering, CGPA 5.9 *2017*

- Silver Medalist (2017) for outstanding practical expertise; government-funded hydroponics research recipient
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CERTIFICATIONS

CompTIA A+ (2025) • **CompTIA Network+ (in progress, 2026)**

TECHNICAL SKILLS

Security: Vulnerability management, phishing, least privilege, MFA, IAM, endpoint protection, incident response, log review; Wireshark, Nmap, Autopsy, Burp Suite, SIEM (Splunk/ELK)

Systems & Networking: Windows, Linux (Ubuntu, Kali); TCP/IP, DNS, DHCP, VPN, firewalls, Active Directory, Microsoft 365, Azure, AWS

Programming & Scripting: Python, Bash, PowerShell, JavaScript/TypeScript, HTML, CSS, PHP, Three.js, C/C++, SQL, Git

Full-Stack & Mobile: React, Node.js, Express, REST APIs, MongoDB, Android (Java/Kotlin, XML), iOS (Swift)

Embedded & Mechatronics: Arduino, ESP8266/ESP32, Raspberry Pi, sensor integration, IoT, PCB prototyping

EXPERIENCE

Co-Founder & Software Developer — Tubelight Marketing *Surrey, BC | 2021 – Present*

- Built and deployed 20+ full-stack websites and softwares; configured SSL/TLS, DNS and hosting
- Administered client accounts using least-privilege access; provided ongoing IT troubleshooting across hosting, email, and CMS platforms

Website Developer — Meshroad Marketing *Surrey, BC | [2020-2021]*

- Supported campaign setup, analytics integration, and technical website updates; documented processes for team knowledge base

Mechatronics / Automation Developer — Frieden Electric *[Chandigarh/Santiago] | [2015] – [2019]*

- Designed automated aeroponic systems integrating microcontrollers, environmental sensors, and real-time control logic
- Programmed embedded firmware in C/C++ for closed-loop control of nutrient cycles and ambient conditions
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PROJECTS

Happy Plug (ESP8266, C/C++, MQTT) — WiFi smart plug with remote control, scheduling, and secure credential provisioning on the embedded device connected to the web

Native Mobile Apps (Java/Kotlin with XML, Swift) — Android and iOS apps with REST API integration, secure authentication flows, local storage (Room/SQLite), and Google Firebase.

RESEARCH & PUBLICATIONS

“Generating Electricity from Cooking Fire in Rural Areas Using a Stirling Engine” — Presented at the International Conference on Renewable Energy, Paris.