

Technical Skills (Computer Hardware Engineer)

Core Hardware & Troubleshooting

- PC assembling & disassembling
- OS installation (Windows 7 / 10 / 11)
- Drive formatting
- Password recovery
- Hardware replacement: SSD, HDD, RAM, and other components
- Hardware troubleshooting (general)
- BIOS/UEFI configuration & updates
- CMOS/BIOS password reset
- Laptop motherboard repair basics
- CPU installation & thermal paste application
- GPU installation & troubleshooting
- SMPS and motherboard testing
- Cable management & system cooling optimization
- PC case & fan setup for airflow
- External device connectivity troubleshooting (USB, HDMI, audio)
- Monitor & display troubleshooting
- UPS & SMPS maintenance
- Battery calibration & replacement
- PC motherboard repair basics
- Component compatibility checking (RAM, CPU, motherboard)
- Keyboard, mouse, and peripheral replacements

Software / OS Related

- Basic software installation, Microsoft Office (2013 / 2016 / 2019 / 365), CorelDRAW, etc.
- Disk cloning
- Partitioning & dual-boot setup
- Windows troubleshooting & optimization
- Malware removal & antivirus setup
- Driver updates & firmware updates
- Data backup & recovery

Networking & Peripherals

- Basic networking & troubleshooting
- LAN cable testing & setup
- Router & switch troubleshooting
- IP configuration & ping testing
- Wireless network setup & troubleshooting
- Peripheral device setup (printers, scanners, external drives)
- Printer operation & troubleshooting
- Peripheral setup (webcam, microphone, external storage)
- RAID configuration (if experienced)
- Bootable USB creation & recovery tools