Hardware List on-hand

1) Hardware

- Godiag GT100 breakout box — excellent for making clean bench harnesses, switching ignition/power lines and wiring multiple modules. Use as physical interface between ECU and your emulator.
- Godiag GD101 J2534 — pass-thru for reflashing when needed; good for reprogramming via OEM tools.
- Launch X431 Pro 5 / X-Prog — diagnostics, coding and MCU programmers (useful if you need to change configuration or read certain memories; X-Prog for eeprom/MCU programming).
- ELM327 v1.5 / v2.1 — cheap CAN/OBD sniffing where low timing accuracy is OK (useful for quick checks, NOT ideal for tight timings).
- OBDLink MX+ — very reliable USB/Bluetooth CAN logger; good for consistent logging and used with PC tools.
- PCMmaster — you already use it for flash/ECU dumps.
- Scanmatik Pro2 + Tricore cable — critical for Tricore ECUs, reading/writing memory, JTAG access, for deep bench work.
- Openport 2.0 — good for ECU flashing and logging on many platforms.
- VX SCAN OP-COM v1.99 — Opel-specific diagnostics, useful to reproduce exact state/gateway messages.
- STM32F103C8T6 ("Blue Pill")
- ST-Link V2 (Original) → flash/debug
- ST-Link clones → backups, secondary dev
- J-Link Original → advanced debugging and JTAG/SWD flashing

2. FINAL SYSTEM PROFILE: Laptop

Specs	Value
Laptop	Acer TravelMate P2510-G2-M-84MQ
CPU	Intel® Core™ i7-8550U (1.8 → 4.0 GHz, 4C/8T)
RAM	12 GB DDR4 (upgradable)
Storage	1 TB Samsung NVMe SSD + 1 TB WD HDD
GPU	Intel® UHD Graphics 620
OS Installed	Windows 10 Pro 64-bit (22H2, Build 19045.6456)
Ports	USB-C, 3.0, 2.0×2, HDMI, VGA, RJ45, SD
Connectivity	802.11ac, BT 4.0, Gigabit LAN

3. Software List

1. DIAGNOSTIC SOFTWARE

Software Name	Location	Notes
CAT SIS 2022	`d3`	Caterpillar Service Information System
CAT SIS 2019 Torrent File	`Downloads 2`	Likely backup/download
CAT et 2019C	`d4`	Caterpillar Electronic Technician
CONSULT III+ v82.11.00-82.50.00	`Downloads 2`	Nissan/Renault diagnostic
CONSULT3PlusV7.secured	`Downloads 2`	Secured version
DiagAutoClinic	`DiagAutoClinic`	Custom clinic diagnostic suite
DiagSoftware	`DiagSoftware`	General diagnostic tools
FORScanSetup2.3.48.release	`d3\GoDiag GD101`	Ford/Mazda OBD tool
GoDIAG J1979 TesterSetup_vc-x86_2v3	`d3\GoDiag GD101`	OBD tester
hds	`d3\GoDiag GD101`	Honda Diagnostic System
New Download (various)	`New Download`	Includes ScanMaster, SDFLASH, etc.
ODIs-E 18.1.0	`Downloads 2`	Opel Diagnostic Interface
ODIS-S 24.3.1	`Downloads 2`	VW/Audi Group Offboard Diagnostic
PCMFLASH	`d3\GoDiag GD101`	ECU flashing tool (also in `d4`)
PCM Flasher Link	`d4`	PCMFLASH support
pcmflash-1.4.0-1	`Downloads 2`	PCMFLASH v1.4
PowerISO 8.1 Full (64 Bit)	`d4`	ISO/image tool (diagnostic support)
ScanMaster	`d4`	Generic OBD scanner
Techstream_Setup_V17.00.020	`d3\GoDiag GD101`	Toyota/Lexus diagnostic
Techstream_Setup_V17.00.020 (duplicate)	`d3\GoDiag GD101`	Same as above
VCDS	`VCDS`	VAG-COM Diagnostic System (Ross-Tech)
VCI Manager JLR_1.4.2.1810	`VCI Manager JLR`	Jaguar/Land Rover interface
Xentry / SDflash	`New Download`	Mercedes-Benz diagnostic & flashing

2. ECU SOFTWARE & TOOLS

Software Name	Location	Notes
1.ECM TITANIUM 26100	`10 ECU Gifts`	ECU remapping tool
2.ECM TITANIUM 26100 (archive)	`10 ECU Gifts`	WinRAR backup
3.ECU maps	`10 ECU Gifts`	ECU map files
4.ECU Pinouts collection	`10 ECU Gifts`	Wiring & pinout database
5.Ecu Safe 2.0	`10 ECU Gifts`	ECU safety/backup tool
8.public-archivedw1-317	`10 ECU Gifts`	Archived ECU data
9.Setup DPF EGR Lambda Remover 05.20...	`10 ECU Gifts`	DPF/EGR delete tool
10.Winols_24	`10 ECU Gifts`	WinOLS ECU editing (v2.4?)
BOOT OTx-DIAG	`New Download`	ECU boot mode diagnostics
DBWXI NG3 After Sales STANDARD	`New Download`	BMW ECU tool
FullFix for Xentry and Truck v8.3.1	`New Download`	Mercedes Xentry fix
SDFLASH 2008-10	`New Download`	ECU flashing (older)
sp421-b 9.1	`sp421-b 9.1`	ECU programming suite
Techstream_Setup_V17.00.020	`d3\GoDiag GD101`	Toyota ECU access
WinOLS	`10 ECU Gifts`	ECU file editor
ZENZEFI Downgrade for 12-28 xentry	`New Download`	Xentry downgrade tool

3. KEY CODING / IMMO / SECURITY

Software Name	Location	Notes
Immo Code Calculator v147	`IMMO`	Universal IMMO calculator
Immo_Decoding v3.2	`IMMO`	PIN/code extraction
Immo_Killer_v1.1	`IMMO`	IMMO off tool
Immo Login_Calculator	`IMMO`	Login code generator
IMMO_Service_Tool v1.0+v1.2	`IMMO`	IMMO service suite
IMMO_Universal_Keygen_v3.2	`IMMO`	Keygen for IMMO tools
MultiFlasher v1.2.1	`IMMO`	ECU & key flashing
Opel Pin Repair	`IMMO`	Opel immobilizer repair
Opel VIN Decoder	`IMMO`	VIN to PIN
OTOCheck_Immo_Tool_v2.0	`IMMO`	Key programming tool
Professional EGR+Immo+HotStart Rem...	`IMMO`	Multi-function remover
IMMOFF17_Launcher_v2.1162.au3	`IMMO`	AutoIt script launcher
Immokiller v1.10	`IMMO`	IMMO bypass
ImmoTool v1.5	`IMMO`	Key coding utility
ME 7.1.1_LookKit_jam5_lastBetaNov23.au3	`IMMO`	ECU key learning script

SUPPORT TOOLS & UTILITIES

Tool	Purpose
AOMEI Partition Assistant 8.4.0	Disk management
Autocom 2021.11 + KEYGEN	Delphi/Autocom diagnostic
FoxFlash Manager	ECU programmer interface
Getintopc.com AOMEI...	AOMEI backup
MongoosE JLR	JLR passthru interface
Office 2016 64bit	Documentation
OP-COM	Opel diagnostic interface
PCM-Setup	PCMFLASH installer
PHP-Mailer-master	Scripting (possible automation)
PIWIS OEM Driver PT3G	Porsche diagnostic driver
RCC v2.31	Renault CAN Clip patch
SDD 164.00.01 FULL	Jaguar/Land Rover SDD
Visual-C-Runtimes-All-in-One-Nov-2024	Runtime libraries
7-Zip, AnyDesk, Acronis, etc.	General utilities