



ANTONIUS

Polymath Security Researcher

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PROFESSIONAL SUMMARY

As a polymath security researcher, I combine multidisciplinary expertise in low-level vulnerability research and hardware hacking, supported by a solid foundation in mechatronics, mathematics, and deep learning to provide a rare skillset.

CORE COMPETENCIES

Offensive Security	Low level vulnerability research
Hardware & RF	PCB Design & Fabrication, RTL-SDR, Custom Tactical Hacking Device Development, IoT Device Fabrication
Robotics	Autonomous Robot Design & Programming, Embedded Systems, Sensor Integration, Motor Control, Custom Robotic Platforms
AI / Deep Learning	Deep Learning (TensorFlow/PyTorch), Computer Vision, Transformers, Mamba
Programming	C, C++, Python, ASM, Java, PHP
Platforms	Linux (primary), FreeBSD, Android, IOS, QEMU, ARM/x86 embedded systems
Other Skills & Knowledges	Math, chess, musical instruments (guitar fingerstyle & keyboard), martial art (muay thai, taekwondo, boxing, bjj)

CVE DISCOVERIES & VULNERABILITY RESEARCH

CVE / Finding	Description	Year
CVE-2026-23416	Linux Kernel mm/vma.c:830 — VM_WARN_ON_VMG invariant violation via mseat(2) spanning VMAs with mixed VM_SEALED states. Affects Linux 6.17 through 7.0-rc5. Discovered via Syzkaller fuzzing; fix acknowledged and submitted by Lorenzo Stoakes (Oracle) within hours of disclosure.	2026
LiteDNS OOB Read	Out-of-bounds read vulnerability in LiteDNS server.	2026
buptLab dns_relay	Remote heap-based buffer underflow in buptLab dns_relay_server.	2026
CVE-2026-27831	Multiple memory safety vulnerabilities in rldns DNS relay server discovered via fuzzing and manual code review.	2026

PROFESSIONAL EXPERIENCE

IT Security Researcher

Blue Dragon Security (bluedragonsec.com) · 2023 – Present · Indonesia

- Low level vulnerability research, PoC development, CVE reporting
- Hardware hacking (tactical hacking device development, counter surveillance device development, robotics)

Security Curriculum Developer & Trainer

Brimob — Collaboration · 2026 · Indonesia

- Designing Security Researcher Master Class
- Providing hands-on lab environments and exploit development training for intelligence agency personnel
- Training materials published (subset) at github.com/bluedragonsecurity/

IT Security Researcher & Penetration Tester

BNPT (National Counter Terrorism Agency) · 2013 – 2015 · On Site / Indonesia

- Network security assessments
- Custom security tool development: fuzzers, OSINT frameworks, exploit scaffolding

IT Security Researcher

Codewall Security · 2012 – 2013 · Remote / Indonesia

- Network security assessments
- Custom security tool development: fuzzers, OSINT frameworks, exploit scaffolding

Electronic Engineer & Robotics Developer

Independent / Contract Projects · 2013 – Present · Tangerang, Indonesia

- Design and manufacture custom PCBs for robotics, IoT, tactical hacking device development
- Build fully autonomous robot platforms with sensor fusion, computer vision, and real-time motor control
- Create AI-powered embedded systems combining deep learning inference with custom hardware for field deployment

NOTABLE PROJECTS & PUBLICATIONS

Low Level Vulnerability Research

- CVE-2026-23416 - mseat security vulnerability affects Linux kernels 6.17–7.0-rc5. Fix authored by Lorenzo Stoakes (Oracle). Vulnerability discovered by Antonius
- Modern security mitigation bypass
- Dirty Pipe Variant Research — Extended CVE-2022-0847 with custom dirtypipe2.c exploring variant attack surfaces (bluedragonsec.com/files/dirtypipe2.c)

Hardware Hacking

- Custom counter-surveillance hardware for intelligence agency
- Custom tactical hacking device development for intelligence agency
- IoT product & portable electric generator development - youtube.com/robotsoft
- Robotics portfolio: multiple autonomous robot designs documented at youtube.com/antoniusringlayer & <https://bluedragonsec.com/var/robotic/>

Published Security Research

- bluedragonsec.com
- packetstorm.news/files/author/10292/1
- medium.com/@w1sdom

- <https://cxsecurity.com/author/antonius/1/>

DATA & VERIFICATION

Security Research	bluedragonsec.com github.com/bluedragonsecurity cve.org (search: bluedragonsecurity)
Publications	bluedragonsec.com packetstorm.news/files/author/10292/1 cxsecurity.com/author/antonius/1 medium.com/@w1sdom
Hardware / Robotics	youtube.com/robotsoft youtube.com/antoniusringlayer
Code Repositories	github.com/bluedragonsecurity github.com/antoniusrobotsoft
Kernel Reporting	https://lore.kernel.org/all/?q=bluedragonsecurity
CVE	https://www.cve.org/CVERecord?id=CVE-2026-27831 https://www.cve.org/CVERecord?id=CVE-2026-23416
Country	Indonesia

Low-Level Vulnerability Research | Hardware Hacking | Robotics | Indonesia

www.bluedragonsec.com