



SANDRINE NGATCHOU

Cybersecurity Project Manager
- Security Solutions Engineer

Professional with more than 15 years of experience in the integration and implementation of cybersecurity solutions (SIEM, Vulnerability Management, Network Architecture, PenTest, Threat Modelling, PKI-Cryptography...) as a Project Manager and the realization of functional and technical audits. Development of courses, teaching, consulting on various disciplines in cybersecurity in many engineering schools and Master.

WORK EXPERIENCE

Cyber solutions integrator

Since April 2018

EDF INGEUM Saint-Denis, France

- Role in steering bodies (crisis management, operational security committee, etc.)
- Support to the Data Protection Officer DPO to ensure compliance of processing; consideration of the need for a Data Protection Impact Assessment (DPIA) and its effective completion.
- Manage the architecture, design, installation, operational planning and remediation activities for information systems security risks
- Opportunity studies and technical architecture for continuous cyber monitoring of DCS (Digital Control System).
- Expert management of security devices, including monitoring, planned changes, patch management and architecture evolution.
- Integration of Cyber solutions (Vulnerability Scanner, SIEM, Remote maintenance : Firewall + VPN + KVM), Data Transfert for Electronic monitoring with Data-Diode, The use of sensor data, such as accelerometers on connected industrial equipment, to diagnose and predict equipment failures is of growing interest in industrial and commercial applications.
- Access Management (AM), or Authentication/ Autorisation ; Identity Governance (Policy modeling, User account provisioning, Access certification) and Administration (IGA) ; Privileged Access Management (PAM). Experimentation the solutions MIM Microsoft Identity Manager SPI and FreeIPA RedHat.
- Write technical manuals, installation manuals, installation status updates, and incident response plans to improve system security documentation; create required system compliance reports and information requests.

Cyber Security Auditor

From November 2015 to March 2018

EDF CNPE CHOOZ - CIVAUX Givet, France

- Support operational teams in the implementation of the Military Program Law (MPL);
- Develop, maintain and explain the IT Security repositories ;
- Control the vulnerabilities of the CNPE;
- Manage the relations with the control authorities (ANSSI - HFDS); Carry out planned internal controls for the continuous improvement of IT security.

Process Studies Engineer

From March 2015 to September 2015

AREVA -BG AVAL-MSN-UTM Bollène, France

- Optimization of the chemical decontamination loop of the primary exchangers of a Pressurized Water Reactor in order to minimize the intervention of the operators and thus reduce their occupational exposures by integrating the ALARA (As Low As Reasonably Achievable) approach - reducing as much as possible the exposure to ionizing radiation.
- Key words: EMMAC-EMMA POA-EMMAg process; Remote control of systems (valves, pumps); RRA/ RCV circuit; Radiation protection; Dose equivalent flow rate; Radionuclides

IT Manager

From October 2010 to August 2014

EDF DSI COMMERCE Colombes, France

- Automation of the electricity commissioning of a house and dematerialization of the customer management acts (monthly payment, invoice estimation, consumption follow-up...)

 **contact@
sandrinengatchou.com**

 **13 Rue Olympe de Gouges
94400 Vitry Sur Seine**

 **Born on 02/02/1983**

 **www.sandrinengatchou.com**

 **French**

 **Driving licence
& personal vehicle**

 **06.50.97.64.62**

 **Single**

LANGUAGES

French

English

German

STRENGTHS

Relational ease

Rigour

HOBBIES

ASSOCIATION FIBROME INFO FRANCE

Accompaniment of patients and the implementation of actions to improve the management of uterine fibroids.

BLOG UTASA

Information and awareness about infertility affecting Afro-descendant women and men.

VOLUNTARY TRUSTEE

Management and accounting of the accounts of the Voluntary Trustee (Avenue Choisy - Villeneuve-St-Georges)

TRAVEL, LITERATURE

- Literature : Behavioral ecology, Sociology, Biotechnology, Anthropotechnics
- Eco-responsible travel

TUTORING

Accompaniment of students in their search for jobs and internships by helping them write their CVs and prepare for interviews. Reinforcement of the technical skills of the mentee with the association Women4Cyber.

DIPLOMA & TRAINING

HACKING TECHNIQUES AND COUNTERMEASURES - LEVEL 2

June 13, 2022 - 1 week

- Preparation and initialization of the phases for exploitation
- Creation of different types of loads for exploitation
- Integrate new Exploits in Metasploit
- Focus on stagers: TCP (Transmission Control Protocol) - SSH (Secure SHell)
- Positioning and internal attacker
- Analysis and understanding of protocol vulnerabilities (DHCP, DNS, NTP...)
- Study of the different Microsoft authentication processes (Kerberos, LAN Manager and Smart card)
- Presentation of the «Mimikatz» tool
- Collection of data for Bloodhound
- Identification of the shortest path to a high privilege account

WINTER SEMESTER - M2 CYBERSECURITY

November 2020 to March 2021, COTTBUS UNIVERSITY Cottbus, Allemagne

- Study Project : Web-fingerprinting attacks against Tor Network
- Wireless Sensor Networks : Concepts, Protocols and Applications
- ITSecurity Law
- Introduction of Cyber Security : Cryptography, Man-In-The-Middle, Buffer-Overflow...
- CyberSecurity Application Areas
- Processor Architecture
- Philosophy of Nature - Green Technology

M1-M2 MANAGER OF INFORMATION SYSTEMS AND ROBOTICS (MSIR) - «IT SECURITY FOR CONNECTED INDUSTRIES»

From September 2019 to October 2020, IMERIR - CFI Montigny-le-Bretonneux, France

- COMPUTER SCIENCE: Algorithms, Software engineering, Computer development
- ROBOTICS: Industrial robotics, service robotics and mobile robotics
- MANAGEMENT : Management and business strategy, communication, management and project management
- COMPUTER SECURITY FOR CONNECTED INDUSTRIES COURSE: Computer security for systems and networks; Mobile, Cloud and IoT security; Data security

HACKING AND SECURITY EXPERTISE

September 2018, ORSYS Paris La Defense

- Understand hackers' techniques and be able to counter their attacks
- Measure the security level of your Information System
- Perform a penetration test
- Define the impact and scope of a vulnerability

MASTER 2 - PROCESS ENGINEERING

From September 2014 to September 2015, INSTN CEA CADARACHE - University of Aix Marseille, Marseille 13, France

- Process engineering applied to nuclear energy - All fields concerning material and energy transformation processes, whether at the design, research and development or production level.

MASTER 2 - TELECOMMUNICATIONS MANAGEMENT & NEW MEDIA

From September 2004 to September 2005

University of Paris Dauphine, Paris

- Telecoms and media management (specialists in managing the digital transformation of the communication and media industries)

BACHELOR 3 & MASTER 1 - ELECTRICAL AND COMPUTER ENGINEERING

Von From September 2002 to September 2004

University Paris Sud - IUP DE CACHAN, Cachan, France

- Design of systems or equipment using digital, analog and power electronics, energy conversion, electrical engineering, automation, industrial computing, signal processing or networks.

LICENCE 1 & LICENCE 2 - MATERIALS SCIENCES AND ENGINEERING

From September 2000 to September 2002

University of Paris Sud - ORSAY Orsay, France

- Solid training in physics and chemistry with an opening towards teaching, process engineering and engineering sciences

SKILLS

CYBERSECURITY

- Cyber crisis management
- Participation in design review workshops
- Writing of general and detailed functional specifications
- Vulnerability Scanning
- PSSI – Information Systems Security Policy
- NDIS (Network Detection Intrusion System)
- SCADA – Supervisory Control And Data Acquisition
- DCS – Distributed Control System
- Supervision of network equipment
- Cybersecurity awareness actions

MANAGEMENT OF IT PROJECTS

- Monitoring of operational indicators
- Integration of the General Data Protection Regulation in projects
- Establish monthly operational progress report
- Define corrective action plans to mitigate deviations
- Evaluate the impact of deviations on the project's master plan
- Communicate with the board of directors on the progress of the project
- Facilitation of workshops and monitoring committee

IT AUDIT

- Risk assessment in various areas of IT, including current and emerging databases, operating systems and applications,
- Depth of knowledge of the various auditing standards recognized and used in the audit profession
- Strong ability to work collaboratively and cooperatively with all members of the organization's workforce irrespective of their status in the organization.
- Ability to exercise initiative and judgement in developing audit programs and methodology.

INFORMATION SYSTEMS DESIGN

- Participation in design review workshops
- Review of the general and detailed functional specifications
- Ensuring that the quality/cost/ deadline ratio of the project is respected according to the company's reference system
- Supporting the acceptance team for the verification of the solution
- Support of the application management in the analysis of anomalies

NUCLEAR

- Reactor physics
- Reactor maintenance and dismantling
- Radiation protection
- Different reactor types
- Safety / Security Audit IT
- Waste treatment
- Chemical decontamination loop

SOFTWARE AND INFORMATION TECHNOLOGY

- Tenable Nessus Scanner
- Greenbone/Openvas Scanner, Cyberwatch, Sentyo
- OT Base Asset Discovery – Asset Center
- Free IPA, Microsoft identity Manager SPI
- Nmap, Wireshark, testssl.sh, Bloodhound
- Kali 2023.1
- BurpSuite, Webgoat
- Buffer Overflow
- Fortinet, Cisco
- Matlab, Sylvia, Prosim, Simulex, Epanet, Automation Studio
- ORACLE, SQL
- SOAPUI, TOAD
- WebMethods Intégration
- Siebel, Selligent, SAP
- Python, C++, JAVA

OTHER PROFESSIONAL EXPERIENCES

February 2023– April 2023 – EFREI – Digital Engineering School

- Professor of the modules : PKI implementation in companies & OS hardening

September – October 2022 – ENSUP CAMPUS SAINT-QUENTIN-EN-YVELINES

- Professor of IT Security Audit & Enterprise Architecture for Master 1

Nov 2020 – Aug 2021 – University of Cottbus

- French conversation teacher for B1 & B2 level