ANDREAS HOLMSEN

A driven engineering student specializing in computer science and networking, currently pursuing a master's degree at INSA Toulouse. I take charge when needed and excel in any environment. By working with my passion for computers, I innovate, explore and breathe life into my work.

CONTACT

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in Andreas Holmsen

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PROGRAMMING

System-level
C, Assembly (x86, ARM)

Applications & OOP
Java, Python

Functional Programming
OCaml, Scala

Web Development
HTML, CSS, JavaScript

Other
SQLite, Ada

DEVELOPMENT TOOLS

Git (GitHub, GitLab)

Jira, GitLab Issues

Wireshark, Nmap

Apache Maven

GDB

LANGUAGES

Norwegian - Native (C2)

English - Fluent (C1)

French - Proficient (B2)

EDUCATION

Diplôme d'Ingénieur (M.Sc. equivalent), INSA Toulouse | 2022 - 2027
Computer and Networks Engineering
Ranked in the top 17% (2023, 2025)

- **Software** Data Structures & Algorithms, Internet Applications, Distributed Algorithms, Advanced Java, UML and Design Patterns, DevOps *(planned)*
- **Systems & Security** Operating Systems, System Architecture, System-Level Programming, Computer and Internet Security, Logic Programming
- **Hardware & Signals** Embedded & Telecommunication Systems, Digital & Analog Electronics, Digital Filtering, Random Signals, Control Systems

Exchange Semester, KAIST | 2024
School of Computing

- Object-Oriented Programming, Computer Networks, System-Level Programming, Programming Language Semantics

EXPERIENCE

Sopra Steria | 2026
Oslo Summer Internship, Technician

Upcoming 8-week internship in networking and consulting

Association of Norwegian Students Abroad (ANSA) | 2024 - 2025
Digital Student Ambassador

Media production to promote studies abroad for Norwegian students. Adobe Suite for graphics design and video editing

PROJECTS

Decentralized Chat System | 2025
Java, SQLite, Maven, Jira, Git

Java chat system built from scratch with decentralized architecture; uses UDP for peer discovery, TCP for messaging, and SQLite for message storage; managed collaboratively with Git and Jira

Signal Processing Laser Game | 2025
C, ASM, MATLAB, Simulink

Laser pistol game at multiple frequencies; simulation in MATLAB/Simulink; Fourier transforms, reactive audio and scoring implemented in Assembly & C

MICTCP - Custom TCP Protocol | 2025
C, GDB, Git

Custom TCP protocol with variable loss tolerance for video streaming

Autonomous Sailboat Embedded System | 2025
STM32, C, Git

Embedded system sailboat using an STM32 microcontroller; reads wind direction via a weather vane to adjust sails, and a controller using a USART for motor control via PWM to change direction

VOIP-Software Vulnerability Analysis | 2024
Wireshark, Python

Analysis of VOIP-software in WireShark and automation using Python