XIAOKE WANG

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EDUCATION

Ghent University Sept. 2021 - Present

MSc in Electrical Engineering, Electronics Circuits and System (ECS)

Thesis: Routing in a Photonic Integrated Circuit Promoter: Prof. Dirk Stroobands & Prof. Wim Bogaerts

Northwestern Polytechnical University

2017-2021

BSc in Microelectronics

Ecole Centrale de Nantes

2020-2021

Foundation Master (non-degree exchange) in Control Robotics & Signal

Graduation Project: Electromyography-based mouse pointer control with Python

TOOLS & SKILLS

Programming Languages Python, R, Matlab, C, Verilog/VHDL

EE Tools & Skills IC Layout Design(Cadence Virtuoso), PCB Design(KiCAD),

High frequecy Analysis(ADS), Robot Control(ROS),
Circuit Analysis(LTspice), Antenna Design(CST)

Digital Circuits Design(Vivado/Quartus)

Tools LaTeX, Git, Bash/Shell

PROJECT & EXPERIENCE

CSL & PRG, Ghent University

Oct. 2022 - now

Master Thesis: Routing in a Photonic Integrated Circuit

- A connection-based routing algorithm applied on hexagonal programmable photonics circuits especially focused on one source multiple sinks application.
- A multiple destinations expansion of an integer programming-based router from single source single destinations.

INSTITUTE OF FLEXIBLE ELECTRONICS, NPU

Sept. 2019 - Dec. 2020

Research Assistant

• Designed a dynamic adaptive learning particle swarm optimizer combined with 5 conventional PSO (particle swarm optimization) strategies which performed better on benchmark functions and have flexibility on different application scenarios with several exclusive parameters (sub-swarm size/ number of sub-swarms...).

The University of British Columbia

Jul. 2019 - Aug. 2019

Summer Program

- Communication Systems: Technology Embedded in Daily life.
- Introduction to Digital Systems Design with FPGAs.

AWARDS

• Excellent Students Scholarship of Northwestern Polytechnical University	Oct. 2020
o "Yajun Wu" Third Prize Scholarship.	Oct. 2020
• Excellent Students Scholarship of School of Microelectronics, NPU	Oct. 2019

LANGUAGES