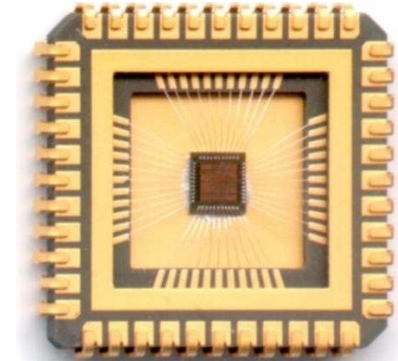# The Computer Group:

# Who We Are and What We Do

ECE Department

University of Toronto

Computer Group: Who We Are

- Established ~30 years ago

- Largest group in ECE
  - 25 Faculty
  - ~90 graduate students

- Diverse research areas
  - From Biomedical Cybernetics to Asynchronous Circuits

- Diverse locations on campus
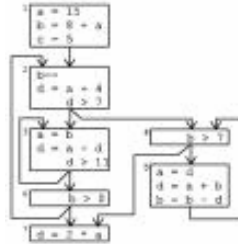 - 5 different buildings, numerous labs & office spaces
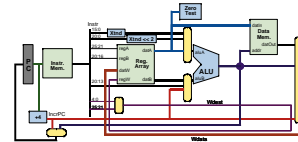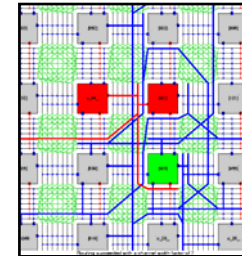
What We Do

Human Computer Interaction
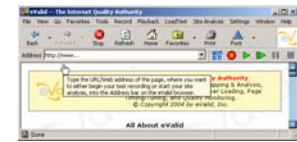
Compilers

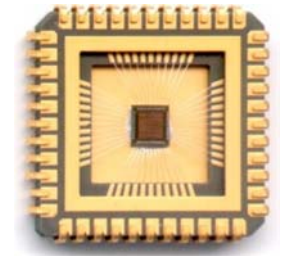**VLSI CAD**

System Software

Computer Architecture

Computer Hardware

☞**a broad spectrum of computer research**

Human Computer Interaction

Mann

Maclean

- **Wearable Computing**

- **Computer Vision**
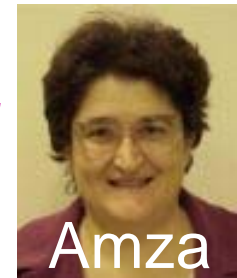

Wong

- **Biomedical Cybernetics**

Aarabi
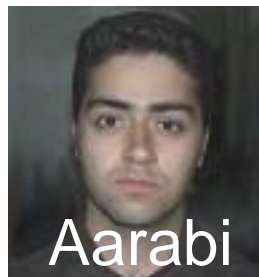
- **Multi-Sensor Information Systems**

Systems Software

- **Operating Systems**
- **Secure Systems**
- **Distributed Systems**
- **Data Mgnt Systems**
- **QoS Provisioning**
- **Middleware & Info Systems**

Goel

Lie

Jacobsen

Stumm

Amza

Li

Compilers

- **Parallelizing Compilers**

Steffan

Graduate Coordinator

Abdelrahman

- **Retargetable Compilation**

Zhu

Computer Architecture

Steffan

Chow

- **Parallel Architecture**

Vranesic

- **Microarchitecture**

Moshovos

Graduate Operations

- **Support for Security**

Lie

VLSI CAD

- **for Low Power & Reliability**

Najm

Department Vice Chair

Vranesic

- **for FPGAs**

Brown

Department Chair

Rose

- **Synthesis**

- **Testing, Diagnosis, Verification**

Veneris
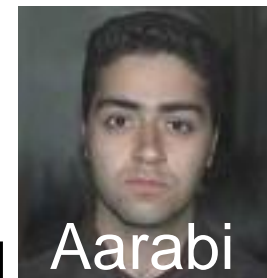
Zhu

Computer Hardware

- FPGA architecture
- Custom Processors

  Computer Group Chair
- VLSI for Signal Processing

  Vice Provost, Planning & Budget
- Asynchronous Logic

Rose

Gulak

Zaky

Chow

Aarabi