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Research Theme

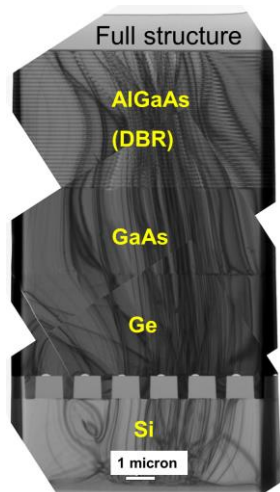
Electromagnetic and Nanoscale Materials and Manufacturing (ENMM)

Research Areas

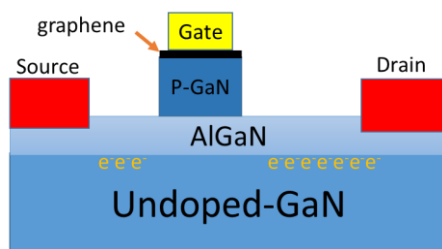
- Group IV semiconductors in microelectronics
- Si-compatible lasers
- GaN power devices
- 2D semiconductors
- 3D integration of ICs
- Raman spectroscopy

Research Facilities/Tools

- High resolution confocal micro-Raman system
- nanofabrication facility at UBC AMPEL
- 4D labs at SFU
- Sentaurus Process, Quantum Espresso



AlGaAs/GaAs DBRs on Ge/Si



GaN-HMET with a metal/graphene gate

Twisted stacked black phosphorus

