

Intern Requirement

Preferred Discipline	Computer/Electrical Engineering, or Computer Science
Prerequisites/ Skills Required:	<ul style="list-style-type: none">• Programming skills• Using and integrating open source libraries• Debugging and testing software• Understanding network protocols and security
No. of students required	Individual or team of 2

Project Details

Title	Intelligent Network Traffic Bridging
Overview/Background	The standard approach for protecting a network is to introduce firewalls and a DMZ to provide defence in depth. However, this introduces difficulty in deploying multimedia streaming solutions. We would like to explore other means of achieving network separation while still enabling traffic bridging.
Aims/Objectives/Deliverables	<ol style="list-style-type: none">1. Study of VPNs, network tunnelling, proxies, data diodes and other network security technologies2. Design and develop a system for allowing multimedia traffic flow over separated networks, based on open source libraries.
Scope	<ul style="list-style-type: none">• Network protocols• Network security
Project Duration	<ul style="list-style-type: none">• 2-3 months for two persons, 6 months for 1 person