**Network Automation with Python and Ansible Project**

I was given a virtual network in GNS3 containing multiple subnets with Windows and Linux computers connected by Extreme Exos switches. One Linux server was designated as the Ansible control machine. I created VLANs on the switches by writing a Python script using the Netmiko library. I then used Ansible to create user accounts on the switches and Windows/Linux computers. Before writing the scripts on the Ansible control machine, I configured network connectivity between the devices and the Ansible machine, using WinRM and SSH. I wrote an inventory file containing all the device information for the computers and switches that would be needed by the playbook file. I then wrote a playbook file to create users on each group of devices, the windows computers, Linux computers and Exos switches.