



## Client

Joe Wheeler, Software Architect

## Company Background

Aventura was born in a Denver hospital IT department that completed a desktop virtualization project.

With an understanding of how technology needs to work for the people who deliver clinical care, Aventura built a universal architecture that reaches into all computing layers, creating an architecture that integrates OS, virtual desktops, applications, policy, and printers. Our software is deployed to hospitals nationwide and provides clinicians with a desktop that is aware of where they are, who they are, and what they need to be efficient and deliver quality care (and does it Jimmy John's fast).

## Project Overview:

Aventura software delivers sessions on Windows devices using a component of our system called the Soft Client. This application is written in Win32 C++ which can run on any Windows platform. This project would port our client functionality to a new platform with a minimal and self contained hardware platform (Raspberry Pi).

## Project Goals

Students will be required to develop a Soft Client implementation for a new hardware platform as well as design the hardware experience both in terms of form and manageability.

- Complete any necessary research as to how to complete the objective
- Create a client according to an existing API for a Raspberry Pi.
- Design a housing and management system for the hardware.

## Skills Required

- Software Development, specifically Python
- Basic C/C++ skills
- Knowledge of Agile Software Development
- Ability to learn and adapt

## **Student Benefits**

This project will give the students experience and knowledge with:

- Architecting and building a software component
- Learning how to integrate complex software and hardware
- Practical Python and C++ experience
- Learning how to deal with cross platform development
- Interfacing with third party software APIs and drivers.
- Real world project that can be completed in 6 weeks

## **Team Size**

This project would be suited for a team of 3-5 people.

## **Location**

Students will be expected to spend most of their time at the Aventura office which is in downtown Denver.

## **Contact**

Please contact Joe Wheeler (Joe.Wheeler@aventurahq.com; 1-720-250-9134 x1013) with any questions you have regarding this project.