



Enhancing Student Life

AMS Volunteer Connect Internship Posting

Posting ID: 2011-126

Organization: ApexVision Technology

Location: Vancouver- UBC Campus

Position Title: Software Developer

Position Description:

Develops C++/C# modules for a new 3D imaging technology. The C++/C# modules form a Software Development Kit (SDK), designed for the use of 3rd party developers. This includes:

- Designing a modular software package.
- Developing image retrieval modules to interface with external cameras.
- Re-implementing an available Matlab image processing software, in C++/C#.
- Creating code documentation suitable for SDK's public release.
- Assists in the design and development of exciting demo applications in C++/C# that showcase the technology. This involves the use of leading edge systems such as the Microsoft Kinect.

Skills Required and/or Recommended:

- Highly experienced C++/C# developer and very proficient in modular and Object Oriented Programming.
- Experienced in using programming SDKs and interfacing with external hardware (e.g., USB devices, cameras, etc.).
- Industrial experience in software development, familiar with software development life cycle, methodologies and tools (e.g., version control).
- Proficient in Matlab.
- Great writing skills.
- Self-motivated, able to work independently on assigned tasks.
- Enthusiastic about working on and developing cutting edge technology.
- Able to work in a team and achieve milestones in a timely manner.
- Able to commit to a minimum of 10 hours per week for six months.
- Recommended: Familiar with fundamentals of image processing.
- Recommended: Bachelor's degree in software engineering, computer engineering, or computer science.

Skills Acquired and/or Gained:

Gain experience in:

- Software development in C++/C#.
- Image processing and algorithm development.
- Programming for external devices such as cameras.
- Using leading edge sensors such as laser scanners.
- Developing applications for Microsoft Kinect.



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- Modular software design and development.
- Using software engineering tools (e.g., version control, etc.)

Number of Positions: 2

Number of hours per calendar week: 10