

Isaac Y. CHIBOUB

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EDUCATION

Computer Engineering Major

September 2013 - Present

Advanced courses in **Image Processing & Virtual Reality**

Expected Graduation: **2015**

Université de Technologie de Belfort-Montbéliard
Belfort, France

www.utbm.fr

DEUTEC Graduation

June 2012

General Foundation Studies

(Mathematics, chemistry, computer science, English, etc...)

Université de Technologie de Belfort-Montbéliard
Belfort, France

www.utbm.fr

Baccalauréat S (sciences) awarded with Honors

June 2010

French High School diploma obtained in English reinforcement section.

Lycée Jules Haag (High School)

Besançon, France

RELEVANT WORK EXPERIENCE

TDK-EPCOS Inc. – Iselin, NJ, United States of America

September 2013

Six-month internship during my fourth year of college

Subject: Enhancement of the TDK-EPC Corporation Web Portal applications.

Duties included supporting and maintaining the Portal using Back-end C# code, handling of large financial databases in SQL, Web Development in ASP.Net framework with a rich JavaScript and jQuery environment for great user experience. Drafting the documentation for the future users of the Applications developed.

Benefits: Experience of working in team under short deadlines using subversion software.

Trained to proofread code before publishing it from test systems to live.

Improved my social skills by meeting the different employees when working support.

DIMECO ALIPRESSE – Besançon, France

February 2011

One month entry-level Internship in the mechanical attachment branch

SKILLS

Adept at initiating and executing ambitious projects.

Multilingual:

English (bilingual), **French** (native), **Spanish** and **German** (scholar)

Model Development:

Efficient with **UML**

Object-oriented:

Well-trained with **C#**, **Efficient** with **C++** and **JAVA**

Web Development:

Excellent with **PHP & SQL**, **HTML5 & CSS3**, **Ajax**, **JavaScript** & **jQuery**,

Frameworks:

Excellent with **.NET**, **Bootstrap** and **Laravel**

Multi-agent Systems:

Trained in **SARL** with **JANUS** (Holonarchy, www.sarl.io, www.janusproject.io)

Image Synthesis:

Excellent with **OpenGL & WebGL**, **HLSL/GLSL**

Virtual reality:

Good with **Blender**, **3DSMax**, experience of developing for **Wii** & **Oculus Rift**

Networks:

Graduate of **CCNA** (CISCO Certified Network Associate) 1 & 3

OS:

Ability to work with **UNIX**, **LINUX**, **Mac**, **Android** and **Open Indiana**

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PROJECTS

- **Personal website:**

isaachibou.github.io

Online Resume in **HTML5**, **CSS3** with **jQuery**.

- **Tetris clone:**

[isaachibou/TetrisOpenGL](https://isaachibou.github.io/TetrisOpenGL)

Coded in **C++** with a graphic interface in **OpenGL**

- **“Eurockéennes” Multi-agent simulation**

[isaachibou/EurockSimulation](https://isaachibou.github.io/EurockSimulation)

Simulation of a French festival in **JAVA**. (Validation project for a multi-agent course.)

- **Character Animation**

[isaachibou/CharacterAnimation](https://isaachibou.github.io/CharacterAnimation)

Design of a character with **3DSMax**, animation and rendering with **OpenGL** & **SDL**

COMPUTERS COURSES TAKEN

Virtual Reality & Image Synthesis

Image synthesis, processing & analysis, Vision & Virtual Reality, Shape Recognition, shaders in HLSL/GLSL, Fuzzy Logic, Neural networks, statistical classification, structural analysis.

Programming

Multi-Agent programming, parallel & distribution, multi-threads.

Object-Oriented Programming: introduction and advanced courses in **JAVA** and **C++**, graphic development environments, object design and analysis methods.

Information Systems

Method and tools for information system and system design, methods and tools of software design.

Implementation of logical and relational network databases, requests, development in **Virtual Basic**.

Operating Systems

Software components of an operating system. Basics concerning files, processes, thread-shell programming with **UNIX**. **UNIX** system library development (synchronization, signals, sockets) with **C**

IT System Security & Computers architecture

Analytical skills and techniques for improving IT system security, computer security (technical and software). Introduction to firewalls, security algorithms, network and security protocols.

Study of assembler language, combinatory systems and sequential circuits (states graphs, **VHDL**)

Mathematics

Time complexity for algorithms, Mathematical properties of graphs, principles of recurrence and induction. Introduction to and use of spline concepts, Plan view B-Spline curves & tensor products

LEADERSHIPS AND COMMUNITY SERVICE

- **Course en cours:** Project leader of a team of 5 in a contest organized by a well-known French car manufacturer (**Renault**) and software designer (**Dassault Systèmes**)

www.course-en-cours.com

- Active member of the **youth city council** of Chemaudin, France for three consecutive years

- Volunteer for the organization of **FIMU** in 2012, the annual international festival of college music in Belfort, France

- Manager and co-opener of the **American Football Club** of Université de Technologie de Belfort-Montbéliard

- Volunteer for **New York Marathon 2013**

HOBBIES

US Football - Soccer - Guitar - Books – Writing - Video Games