Colin Ching Chit Chan

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Contact

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chanc68@rchk.edu.hk

GitHub
github.com/ColKol

YouTube
https://www.youtube.com/channel/UC8hdATAtOwag3BsGMKTpTgQ

Education

2012 - 2022
Renaissance College Hong Kong (RCHK)
English Schools Foundation

Academics
Y9 - 60/63
Y10 - 54/56
(International Baccalaureate)

Awarded RCHK Academic Excellence Award from Y7 - Y10

Technical

Software

- Fusion 360
- AutoCAD
- Blender
- Unity (2D & 3D)
- Visual Studio
- Visual Studio Code (minor)
- Xcode (Storyboard) (minor)
- GitHub (minor)
- PyCharm

Programming Languages

- Python
- C#

Skills & Interests

- CAD & solid modelling (Fusion 360, Autocad)
- 3D modelling & animation (Blender)
- DAW music production (GarageBand)
- Language learning & (Mandarin, Spanish)

Languages

- English - Native
- Cantonese - Moderate
- Mandarin - Moderate
- Spanish - Beginner

Personal Statement

Year 11 student studying at Renaissance College Hong Kong passionate about tech, innovation, & computer science. I constantly strive to explore unfamiliar skills & software, documenting my educational journey while attempting to create meaningful impact. I enjoy taking skills of interest beyond the classroom, cultivating collaboration & my own projects. I document much of my recent work, ranging from artistic renders to mathematical visualisations. I have experience in a wide range of CAD / other software applications & am eager to discover new software, programming languages ect. I hope I will apply what I have learnt & what I strive to learn about tech & software to meaningfully improve the world.

Experience

19/12/22 - 30/12/22

Clearbot Internship

- Interned at marine robotics startup company Clearbot for 2 weeks, designing 3 3D printed parts for the Clearbot ocean cleaning pontoon at iDendron, Hong Kong University with Fusion 360.
- Redesigned switch mount on the side of pontoon to replace poorly designed original.
- Redesigned Clearbot "brain" to efficiently hold Jetson module and other electronic components for new Clearbot shape.
- Designed container for mounts protecting drive controllers and LiPo batteries on planned Clearbot barge, researching battery management systems compatible with batteries.

31/10/22 - 11/11/22

UVision Internship

- Interned at smart-parking company UVision for 2 weeks, training a successful neural network model to discriminate against commercial vans, private cars, motorcycles, & taxis via Python 3.10 library Fast.ai & Jupyter notebook.
- Integrated trained model (exported to .pkl) with Python using YAML to automatically sort parking lot images into desktop file directories using Python's OS module
- Integrated Tkinter & PIL with trained model using YAML, creating an intractable program for parking attendants to manually label images identified as low confidence (<75%), then automatically sorted into correct directory.

08/22 - Ongoing

Chariz HK

- Co-founded *Chariz* (alongside Panav Kalra): an organisation that designs & creates 3D printed products for mental health organisations.
- Designed the website, branding (logo, theme), & model *Chariz's* products in Blender. Have designed over 5 different products for charities such as MindHK & Coolminds.

06/22 - Ongoing

ColCol Documentation

- Started the *ColCol* YouTube channel to document my self-created animations, music, and programming projects.
- Documented over 17 videos, ranging from console line games, sorting algorithms, mathematical concepts such as circles / parabolas, animations made with Unity & Blender, & 5 music tracks.

05/22 - 05/12/22

Personal Project Language Game

- Developing a language learning 2D video game in the *Unity 2D* engine & C# for the International Baccalaureate Personal Project, encompassing programming, 2D animation, and music to teach beginner (HSK 1) Chinese.

08/22 - 09/22

Crimson Education Pitch for the Future

- Competed and won "Young Pioneers Award" for the *Crimson Education Pitch for the Future* innovation competition, collaborating in a group of 3 to pitch the *Terrapin* bot.
- Helped design the 3D model of *Terrapin* & animated a short Blender video showing MVP functionality.
- Researched image recognition & how it could be implemented via TensorFlow, collaborated with team members to draft scripts, research issues, & create presentations.

**References available upon request*

Experience (Continued)

18/09/21 - 19/09/21

English Schools Foundation Computer Conferencing Hackathon

- Undertook & won the 2021 *English Schools Foundation Computer Conferencing Hackathon*.
- Collaborated efficiently with a team of 3 to conceptualise & pitch a Smart-Glasses concept for the visually impaired in under 5 hours.
- Toured Hanson Robotic's Makerbay lab as a result of competition victory.