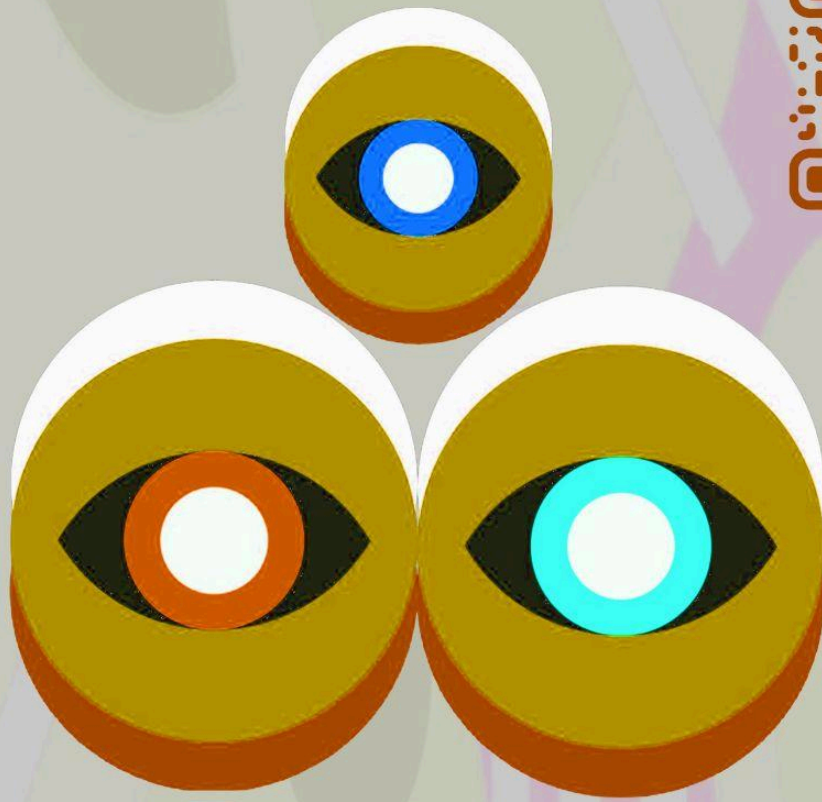


From: Institute Of Digital Arts Jamaica

ARTIFICIALLY GENERATED ANIMATION FILM PRODUCTION

(Non-Photorealistic Rendering [NPR])
(Physically Based Rendering [PBR])
(Odin Edition)



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“(ANM00) Animation - Artificially Generated Film Production”

Programme : Animation Film Production
 Department : Film
 Prerequisite : CSEC® (Literature, Visual Arts, Theatre Arts, Music, Technical Drawing)
 (CAPE® Performing Arts Unit 1 and 2 or satisfactory demo-reel/interview)
 Type Of Course : Animation
 Course Title : “Animation - Artificially Generated Animation Film Production”
 Course Code : ANM00
 Credits : 3
 Year : Four (4)
 Semester : Two (2)
 Duration : 1 Semester, 15 weeks, 60 hrs (3 hrs per week)

Lecture Redistributor : Israel Andrew Brown
 Email : israelandrewbrown@proton.me
 Website : <https://github.com/israelandrewbrown/AGAFP>
 Discord : discord.gg/unXGVPgH
 Resources : <https://www.youtube.com/playlist?list=PL4ouDzfxGIYQK1rhavaAFrcFhmsT137EK>

Rationale : This course addresses the growing need for digital professionals who can integrate A.I. tools into traditional filmmaking workflows, preparing students for an industry increasingly reliant on AI-enhanced production pipelines while maintaining core storytelling and technical animation skills.

Description : This course leverages State of The Art (SoTA) free and open-source artificial intelligence models and software to produce an animated short film. Building on foundational film composition (storytelling, storyboarding, animatics, and video editing skills), students will learn methods in artificial digital asset generation. Understand and utilize 3D animation production techniques to effectively create, modify and compose artificially generated digital assets into a film. Troubleshoot common AI-related issues in animation film production.

Required Equipment: Laptop (≤16gb ram) (≤256gb ssd), e-Mouse, Microphone, ≤50 mbps internet, room,

Optional Equipment : GPU, Graphics Tablet, Graphics Pencil, HDMI-HDMI Cable, Video Capture Card, 4 WebCam, 4 USB Cable, 3 Three Tripods, 1 Charuco Board, 1 Helmet (relevant) Edge A.I. () (NVIDIA® GeForce® RTX ≤8gb) (Apple Silicon [M1][M2][M3][M4])

Objectives :

1. Understand and utilize 3D animation production techniques to effectively generate, modify, & compose artificially generated digital assets into film.
2. Understand how artificial intelligence models can address and resolve inefficiencies in 3D animation pipelines, improving overall productivity.
3. Identify, analyze, and resolve common issues arising from the use of artificial intelligence in film production.
4. Understand the limitations of automation in animation and film production, recognizing which roles are more challenging to automate and why.

Course Assessment: Please note, knowledge gained from this course will be assessed in the “(PRJ00) Project – Individual Project” by its receptive examiner.

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This course material is intended for educational use and is based on the author's current understanding of the subject matter. While the author has taken reasonable steps to ensure the accuracy of the information presented, the rapidly evolving nature of artificial intelligence and film production means that some details may become outdated. The information in this book is distributed on an “As Is” basis without warranty. While every precaution has been taken in the preparation of the book, the author shall not have any liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the instructions contained in this book or by the operating systems, large language models, image diffusion models, computer vision models, computer software and hardware products described in it.

Week One

What is a film? What is “animation” and “twelve principles of animation”? What is “perspective”?
 What is the “animation pipeline”, labor/skill? What are the occupations on the “animation pipeline”?
 How to make “paper”/“charcoal” from wood? How to make a “bone flute”? How is “bronze” forged?

Week Two

What is an algorithm? What is “Artificial Intelligence”? What is “software user documentation”?
 What is a Large Language Model (LLM)? What is stable diffusion? What is cv / pose detection?
 What is the “Chain-of-Thought” and “Zero-shot” generation? What is a ControlNet? What is a Lora?
 What is a computer? What is an operating system? What is hardware and software?
 What is “free and open source”? What are free and open source software licenses?
 Why are file formats; [(.txt)(.jpeg)(.stl)(.usd)(.ogg)(.FLAC)(.srt)(.glb)(.csv)(.openEXR)(.mkv)] used?
 What are references? What is “Glaze” software used for? What is “digital-watermarking”?

What is a “production-meeting”? What is creative “control” and “freedom”? What is “trial-and-error”.
 What is “Edge Artificial Intelligence”? How to set up an “Edge Artificial Intelligence” workstation?
 How to install relevant “free and open-source” models? Eg. “pinokio.computer” or “pinokio.co”

(WebUI[Gradio]) (ComfyUI) (ollama)

Week Three

(Lecture) Story Development
 (Tutorial) Character / Story Structure

(OpenWebUI [gpt-oss])

Week Four

(Lecture) Concept Development
 (Tutorial) Visual Concept [Characters][Props][Set] (StableDiffusion)

Week Five-to-Six

(Lecture) Audio Development
 (Tutorial) Expressive Voice Over (VC/tts/csm) (chatterbox-VC)(zonos-v0.1-tts)(csm)
 (Tutorial) Subtitles (Whisper-v3)
 (Tutorial) Music Design (Audio-to-Audio) (YuE^{ICL})(DiffRhythm^{ICL})(ACE-Step^{ICL})
 (Tutorial) Split Instrumentals/Vocal (Ultimate-Vocal-Remover-V5)
 (Tutorial) Audio-to-MIDI (NeuralNote[Spotify-Basic-Pitch])
 (Tutorial) Sound Effects (Stable-Audio-Open-1.0) (MMAudio)

Week Seven-Eight

(Lecture) Composition Development (what-ai-cannot-do) (Blender 4.0) (Krita 5.2)
 (Tutorial) (Animatics, FX, 2DFX[Fog, Smoke/Fire, Water], VFX Compositing, Video Editing)

Week Nine

(Lecture) Prop Development
 (Tutorial) Image-to-3dMesh [Characters][Props][Set] (Hunyuan3D-2.1) (Ultra3D) (TripoSG)
 (Tutorial) Image-to-Map-to-3dMesh [Set] (Hunyuan-World-1.0)

Week Ten

(Lecture) Look Development
 (Tutorial) Image Texture Generation[Characters][Props][Set] (Stable Diffusion-2.1)

Week Eleven-Thirteen

(Lecture) Motion Development
 (Lecture) Traditional-Concepts-Through-Computer-Animation
 (Tutorial) “Face” - Motion Capture (FaceLandmarkLink-V0.23)
 (Tutorial) “Body” - Motion Capture (FreeMoCap-v1.5)

Week Fourteen :

(Lecture) Motion Development (cont'd)
 (Tutorial) “Face/Body” - Pose Detection (t2v i2v v2v) (Wan 2.2-14b)

Week Fifteen :

(Critique) Showcase and review of completed projects.

Course Review : <https://github.com/israelandrewbrown/AGAFP>
Donate Bitcoin : bc1qdslljzj4x83v28ks0l3cvwdkqvhyfggzc2w8v

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Access the document here: <https://bitcoin.org/bitcoin.pdf>

(PRJ00) Project – Individual Project**Individual Short Film (1minutes - 15minutes)****Pre-Production, Production and Post-production, Marketing and Distribution.**

Students may also be granted an extension to finish their project during the summer semester.

By Group or Individually produce a short film. This Project has five (5) sections.

The Project at completion would contain the following.

Section One - Pre-production

1. Research Paper
 2. Treatment (Author, Title, Log-line, Synopsis, Characters)
 3. Screenplay (three-act-structure) (Standard Formatting) (must use screenplay software)
 4. Concept Art (characters - three [≤3])
 - action poses,
 - face expressions,
 - turnarounds,
 - displaying the twelve [12] principles of animation.
 - Concept Art (props)
 - Concept Art (environments)
 5. Shot List (scene no., shot no., shot type, shot descr., camera movement, Location)
 6. Storyboard (colour coded characters, direct of movement, camera movement)
 7. Story-Beats
 8. Animatic (panel/keyframe, camera movement, sound effects and expressive voiceover)
 9. Expenditure (Gantt-Chart, Human resources, Software/Equipment and Budget)
 10. Pitch (Presentation for "Summary Of Pre-production")
- [Greenlight Statement (Proof-Of-Funding)]

Section Two - Production

Files of the following artificially generated digital assets:

- | | |
|---|--------------------------|
| 1. Assets - (Text-Concept) | (.txt)(.fountain) |
| 2. Assets - (Visual-Concept) | (.jpeg) |
| 3. Assets - (Expressive Voiceover, Subtitles, Sound Effects, Music) | (.FLAC)(.srt) |
| 4. Assets - (Character-Prop-Environment) | (.usd)(.stl)(.glb) |
| 5. Assets - (PBRTextures [Character-Prop-Environment]) | (.usd)(.stl)(.glb)(.ply) |
| 6. Assets - (Motion Capture Data [Input data, output data]) | (.csv) |
| 7. Assets - (Shots of Short Film and Credits Sequence)(≤1 min) | (.exr) (.mkv) |

Section Three - Post-production

1. Modification of "artificially generated digital assets".
2. Composition of "artificially generated digital assets" into a complete film.
3. Utilization of FX, 2DFX, VFX, to enhance film composition.
4. Arrangement of film through video editing and color grading.
5. Presentation of film

Section Four - Marketing

1. Brand Identity
2. Poster (YouTube Thumbnail) (Cover Art) (Title Card)
3. Studio Website (Home, About, Contact [Studio and Workers], Blog, Merch [optional])
4. Credits Sequence (video and spreadsheet)
5. Grant, Direct-Promotion, Indirect-Promotion, Rebate, Tax-Credit.

Section Five - Distribution

[Optional Distribution through Film Festival]

YouTube® Channel Creation - Upload in order

1. Teaser - Title Card (Thirty [10] seconds)
2. Teaser (Ten-Thirty [10-30] seconds)
3. Trailer (one [1] minute - three [3] minutes)
4. Behind-the-scenes Documentary (<7 minutes)
 - a. Teaser at the beginning and title card at end
 - b. Footage of some of the work being done.
 - c. Processes and visual breakdown of artificially generated digital assets.
 - d. Interview of the project manager/director/lecturer.
5. Completed Short Film (1-15 minutes)

There should be five (5) videos on the channel or profile at completion.

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Demonstration Spaces (Software As A Service [SaaS])	
Model Name	Links
gpt-oss	<DemonstrationSpace>
Stable-Diffusion	https://huggingface.co/spaces/stabilityai/stable-diffusion
chatterbox-VC	https://huggingface.co/spaces/ResembleAI/Chatterbox
Whisper-v3	https://huggingface.co/spaces/openai/whisper
DiffRhythm ^{ICL}	https://huggingface.co/spaces/ASLP-lab/DiffRhythm
Ultimate-Vocal-Remover-v5	https://github.com/Anjok07/ultimatevocalremovergui
NeuralNote [Spotify-Basic-Pitch]	https://basicpitch.spotify.com/
Stable-Audio-Open-v1.0	<DemonstrationSpace>
MMAudio	https://huggingface.co/spaces/hkchengrex/MMAudio
Hunyuan-World-1.0-lite	<DemonstrationSpace>
Hunyuan3D-2.1	https://huggingface.co/spaces/tencent/Hunyuan3D-2.1
TripoSG [cpu] TripoSR [cpu]	https://huggingface.co/spaces/VAST-AI/TripoSG https://huggingface.co/spaces/stabilityai/TripoSR
Ultra3D	https://huggingface.co/spaces/ilcve21/Sparc3D
FreeMoCap Face_Landmark_Link	https://github.com/freemocap/freemocap https://github.com/Qaanaaq/Face_Landmark_Link

Generative Artificial Intelligence Models (Software User Documentation)		
Model Name	License	Official Github Repository
gpt-oss	Apache-2.0-License	https://github.com/openai/gpt-oss
Stable-Diffusion-2.1	MIT-License	https://github.com/Stability-AI/stablediffusion
chatterbox-VC/tts	MIT-License	https://github.com/resemble-ai/chatterbox
Whisper-v3	MIT-License	https://github.com/openai/whisper
DiffRhythm ^{ICL}	Apache-2.0-License	https://github.com/ASLP-lab/DiffRhythm
UVR-v5	MIT-License	https://github.com/Anjok07/ultimatevocalremovergui
Spotify-Basic-Pitch	Apache-2.0-License	https://github.com/spotify/basic-pitch
Stable-Audio-Open-1.0	Stability-AI-Community-License	https://github.com/Stability-AI/stable-audio-tools
MMAudio	MIT-License	https://github.com/hkchengrex/MMAudio
Hunyuan-World-1.0-lite [gpu]	Tencent-Community-License	https://github.com/Tencent-Hunyuan/HunyuanWorld-1.0
Hunyuan3D-2.1 [gpu]	Tencent-Community-License	https://github.com/Tencent-Hunyuan/Hunyuan3D-2.1
TripoSR [cpu] TripoSG [cpu]	MIT-License	https://github.com/VAST-AI-Research/TripoSG https://github.com/VAST-AI-Research/TripoSR
Ultra3D	<License>	https://github.com/lizhihao6/Sparc3D
FreeMoCap (Mediapipe)(OpenCV)	Apache-2.0-License	https://github.com/google-ai-edge/mediapipe https://github.com/opencv/opencv

Useful Links (Compatible with “Blender 4.0” “Krita 5.2.3”)

StoryLiner (Animatics) (GPL-3.0-License) https://superhivemarket.com/products/storyliner	SaveSelection (Export-Import[.blend]) (GPL-3.0-License) https://github.com/israelandrewbrown/ExportImport-Selection
AutoCam (GPL-3.0-License) https://renderrides.gumroad.com//autocam	Camera-Shakify (GPL-3.0-License) https://github.com/ra100/camera_shakify
Sculpt Layers (CC-BY-4.0) https://superhivemarket.com/products/sculpt-layers	Boot Tool (GPL-2.0-License) [natively-built-into-Blender]
QRemeshify (Quad-Remesher) (GPL-3.0-License) https://github.com/ksami/QRemeshify/releases/tag/1.1.0	PolyQuilt (Retopology) (GPL-3.0-License) https://github.com/AIGODLIKE/PolyQuilt
OkTopo-Remesher (Retopology) (GPL-3.0-License) https://yegorkumachov.gumroad.com//oktopo	AutoUV (UV Unwrapper) (custom license) https://www.quelsolaar.com/ministry_of_flat/
Ucupaint (Textures) (GPL-3.0-License) https://github.com/ucupumar/ucupaint	AutoReload (v2.0.3) (Blender-Krita Bridge) (GPL-3.0-License) https://github.com/samytychadou/Auto_Reload_Blender_addon
Quick Edit (Blender-Krita_Bridge) [natively-built-into-Blender]	Oven Bake (Texture Bake) (GPL-3.0-License) https://superhivemarket.com/products/ovenbake
fSpy (https://fspy.io/) (GPL-3.0-License) https://github.com/stuffmatic/fSpy-Blender	DeepBump (Image-to-NormalMap) (GPL-3.0-License) https://github.com/HugoTini/DeepBump
Zform (Map-to-Mesh) (GPL-3.0-License) https://superhivemarket.com/products/zform	Depth Map Batch (Image-to-DepthMap) (GPL-3.0-License) https://superhivemarket.com/products/depth-map-batch-for-images
Stable Projector (custom-license) https://stableprojectorz.com/	Dream Textures [NVIDIA-only] [MacOS] (GPL-3.0-License) https://github.com/carson-katri/dream-textures
AutoRigPro / ARP-to-Rigify (R-F) (GPL-3.0-License) https://superhivemarket.com/products/auto-rig-pro	TransportRig (GPL-3.0-License) https://blenderigmaster.gumroad.com//vrf_plus
Skinning (GPL-3.0-License) https://superhivemarket.com/products/voxel-heat-diffuse-skinning	RiggingTools (GPL-3.0_License) https://joshdoyle.gumroad.com//jd_rigging_tools
FreeMoCap v1.5 (AGPL-3.0-License) https://github.com/freemocap/freemocap	Faceit (GPL-3.0-License) https://superhivemarket.com/products/faceit
BlendArMocap (FreeMoCapRig to “Rigify”) (GPL-3.0) https://github.com/cgtinker/BlendArMocap	Face_Landmark_Link (Apache-2.0-License) https://github.com/Qaanaaq/Face_Landmark_Link

RealMotionPro (Animation-Library) (GPL-3.0-License)
<https://superhivemarket.com/products/realmotion-pro-blender-addon-for-animation>

X-PosePicker/GPLPicker (R-F) (GPL-3.0-License) https://superhivemarket.com/products/x-pose-picker https://munorr.gumroad.com//ft-anim-picker-blender	BoneSelector (GPL-3.0-License) https://phihung250693.gumroad.com//iyutsk
AnimationLayers (GPL-3.0-License) https://superhivemarket.com/products/animation-layers	F-Curve Wizard (GPL-3.0-License) https://superhivemarket.com/products/f-curve-wizard
RigUI (GPL-3.0-License) https://superhivemarket.com/products/rig-ui	Dynamic Parent (v2.0.2) (GPL-3.0-License) https://github.com/romanvolodin/dynamic_parent
ReTime (GPL-3.0-License) https://superhivemarket.com/products/retime	DJV (frameNumber-video) (BSD-3-Clause-Licence) https://github.com/darbyjohnston/DJV
Onion Skin Tools (GPL-3.0-License) https://superhivemarket.com/products/onion-skin-tools	Playblast (preview animation) (GPL-3.0-License) https://github.com/RxLaboratory/DuBlast

Blend Craft Compositor / VFX BreakdownMaker (GPL-3.0-License)
<https://superhivemarket.com/products/blend-craft-compositor-blender-plugin-by-3dt>
<https://superhivemarket.com/products/breakdown-maker>

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Useful Links (Compatible with “Blender 4.0” for VFX)		
Freezing Effect Generator	(Frost)	(GPL-3.0-License)
https://maroc77772.gumroad.com//Freezing-Effect-Generator		
Alt Tab Easy Fog	(Fog)	(GPL-3.0-License)
https://superhivemarket.com/products/alt-tab-easy-fog		
Water Shader	(Water)	(GPL-3.0-License)
https://chuckcg.gumroad.com//sxbcnw		
Dynamic Rain	(Rain)	(GPL-3.0-License)
https://cgcool.gumroad.com//lxmii		
Particle-X	(Particles)	(GPL-3.0-License)
https://superhivemarket.com/products/particles-x		
Electro	(Lighting)	(GPL-3.0-License)
https://maroc77772.gumroad.com//yupnu		
Dust Particles	(Dust)	(Royalty-Free)
https://superhivemarket.com/products/dust-particles		
Smoke Scatter	(Smoke)	(GPL-3.0-License)
https://cgcool.gumroad.com//ybsfu		
Fire Scatter	(Fire)	(GPL-3.0-License)
https://cgcool.gumroad.com//xrwyo		
Lazy Forest Generator	()	(Royalty-Free)
https://superhivemarket.com/products/lazy-forest-generator-addon		
Stylized Animated Grass	()	(Royalty-Free)
https://superhivemarket.com/products/grasspaint-stylized-animated-grass-assets-library		
Stylized Trees/Plants Library	()	(Royalty-Free)
https://superhivemarket.com/products/flora-paint-stylized-tree-and-plants-library		
Stylized Tree Asset Generator	()	(Royalty-Free)
https://superhivemarket.com/products/stylized-tree-generator		
Open Scatter	(Object Scatter)	(GPL-3.0-License)
https://superhivemarket.com/products/openscatter		
Donate Bitcoin : bc1qdjsljzj4x83v28ks0l3cvwdkqvhyfggzc2w8v		

Software Website (Github)	License
7Zip (File Archiver) https://github.com/lp7z/7zip	(LGPL, BSD 3-clause)
Audacity (Audio Editor) https://github.com/audacity/audacity	GPL-3.0 license
Balena Etcher (Electronics) https://github.com/balena-io/etcher	Apache-2.0 license
BeeRef (Image Reference Projection) https://github.com/rbreu/beeref	GPL-3.0 license
Bitcoin-Core (Wallet/Node) https://bitcoin.org/en/bitcoin-core/	MIT license
Blender (3D Visual Creativity Suite) https://github.com/blender/blender	GPL-3.0 license
Comfy UI (Image Generation) https://github.com/comfyanonymous/ComfyUI	GPL-3.0 license
Docker (Software Virtualization) https://github.com/docker/docker-install	Apache-2.0 license
DJV (FrameNumber) https://github.com/darbyjohnston/DJV	BSD-3 Clause Licence
Electrum (BTC Wallet) https://github.com/spesmilo/electrum	MIT license
Element (Vst2-to-Vst3) https://github.com/kushview/element	Apache-2.0 license
Face_Landmark_link (Motion Capture) https://github.com/Qaanaag/Face_Landmark_Link	Apache-2.0 license
FFmpeg (Render [for Krita]) https://github.com/FFmpeg/FFmpeg	Mixed
Flameshot (Reference Image Capture) https://github.com/flameshot-org/flameshot	GPL-3.0 license
FreeCAD (CAD Engineering) https://github.com/FreeCAD/FreeCAD	LGPL license
FreeMoCap (Motion Capture) https://github.com/freemocap/freemocap	AGPL-3.0 license
Firefox (Web Private Browser) [faster] https://github.com/mozilla/	MPL-2.0 license
fSpy (Image Projection) https://github.com/stuffmatic/fSpy-Blender	GPL-3.0 license
GIMP (Image Manipulation) https://github.com/GNOME/gimp	GPL-3.0 license
Godot (Game Design Engine) https://github.com/godotengine/godot	MIT license
Git (Version Control) https://git-scm.com/downloads	GPL-2.0-license
HandBrake (Video Transcoder) https://github.com/HandBrake/HandBrake	GPL-2.0 license
Inkscape (Image Graphics [Vector]) https://github.com/inkscape/inkscape	GPL-2.0 license
Kinovea (SyncVideo) https://github.com/Kinovea/Kinovea	GPL-2.0 license

Krita (2D Visual Creativity Suite) https://github.com/KDE/krita	GPL-3.0 license
LibreCAD (Drafter Architecture) https://github.com/LibreCAD/LibreCAD	GPL-2.0 license
LibreOffice (Productivity Office Suite) https://github.com/libreoffice	GPL-2.0 license
LMMS (Music Design) https://github.com/LMMS/lmms	GPL-2.0 license
Ollama (Run [llm]) https://github.com/ollama/ollama	MIT license
OBS Studio (Broadcasting) https://github.com/obsproject/obs-studio	GPL-2.0 license
OpenToonz (2D animation software) https://opentoonz.github.io/e/	BSD-3 Clause
Pinokio (one-click install AI Models) https://github.com/pinokiocomputer/pinokio	MIT license
Proton VPN (Virtual Private Network) https://github.com/ProtonVPN/win-app	GPL-3.0 license
PyCharm CE (Python IDE) https://github.com/phrcek/pycharm-community-edition	GPL-2.0 license
Python (Python) https://github.com/python/cpython	*mixed
qBittorrent (File Sharing) https://github.com/qbittorrent/qBittorrent	GPL-2.0 license
QEMU (Emulator) https://github.com/qemu/qemu	GPL-2.0 license
Fstl (File Data Viewer) https://github.com/fstl-app/fstl	MIT license
SumatraPDF (PDF, EPUB, CRB Reader) https://github.com/sumatrapdfreader/sumatrapdf	GPL-3.0 license
Musescore (Music Notation) https://github.com/musescore/MuseScore	GPL-3.0 license
Natron (2D Compositing)(VFX) https://github.com/NatronGit/Natron	GPL-2.0 license
Neural Note (audio-to-midi) https://github.com/DamRsn/NeuralNote	Apache-2.0 license
TOR Browser (Private Browsing) [slow] https://github.com/TheTorProject/gettorbrowser	unknown
Trelby (Screenplay Software) https://github.com/trelby/trelby	GPL-2.0 license
Ultimaker Cura (3D Printing) https://github.com/Ultimaker/Cura	LGPL 3.0 license
Ultimate Vocal Remover V5 (Split) https://github.com/Anjok07/ultimatevocalremovergui	MIT license
VLC Media Player (Media Player) https://github.com/videolan/vlc	mixed
VS Code (Code IDE) https://github.com/microsoft/vscode	MIT license
WineHQ (Productivity Office Suite) https://wiki.winehq.org/Download	LGPL

“The Ten Essential Roles On The New Pipeline”	
Producer	A producer guides a film from its beginning to its completion. They have a hand in organizing and scheduling, budgeting and hiring, creative problem-solving and overseeing, and marketing and distributing. A producer may be a self-employed contractor, or subject to the authority of an employer such as a production company or studio. They are involved throughout all phases of production from inception to completion. <citation>
Director	This person is responsible for designing sets, overseeing construction workers and other artists, and playing a part in figuring out the overall aesthetic of a movie production. <citation> .
Technical Artist	This person (Programmer) helps video game development teams create interactive, visually appealing games for consoles and apps. They use both artistic and coding skills to integrate artwork and animation into complex game systems and film. <citation> .
Artificial Intelligence Operator [Story] [Concept] [Audio] [Prop] [Look] [Movement]	This (Developer) is a professional who designs, trains, and monitors AI systems. They work as a liaison between human operators and AI systems, ensuring that AI systems are integrated into existing workflows. <citation> .
Layout-Artist / Animatic-Artist	This person creates animatics, which are sequences of images, shots, or sketches that are used to plan a video. Animatics are used in many fields, including animation, television commercials, and movie production. Animatics are a technique that comes after storyboarding, and they can help ensure that a project is on track and will be effective. They can be used to: see how the final product might look. Give a rough draft of how a particular idea will play out. Animatics are usually made by editing storyboard images together with dialogue, sound effects, and music. <citation>
VFX Compositing Artist	This is the last piece of the puzzle you need to make effects look realistic. It combines the work of animators, videographers, and special effects artists to create effects that blur lines. <citation> .
Video Editor	This person uses scenes, takes, and shots to create a cohesive story for the screen. Editors use continuity editing, cutaways, and transitions to evoke certain emotions from the viewer and properly execute an entertaining plot. Video editors for film cut a scene from different angles, which directs the viewer to certain details in a story. <citation> .
Graphic Designer	Graphic designers create visual concepts, using computer software or by hand, to communicate ideas that inspire, inform, and captivate consumers. <citation>
Attorney-At-Law [Lawyer]	A lawyer (also called attorney, counsel, or counselor) is a licensed professional who advises and represents others in legal matters. Today's lawyer can be young or old, male or female. Nearly one-third of all lawyers are under thirty-five years old. Almost half of the law students today are women, and women may ultimately be as numerous in the profession as men. <citation>
Accountant	An accountant is a financial professional who reviews and analyses financial records and keeps track of a company's or individual's income, expenditures, and liabilities. An accountant may also work in project planning, cost analysis, auditing, and financial decision-making. Some specialize in tax preparation and tax planning. Accountants may work for large companies or external accounting firms. They must meet state-specific educational and testing requirements and are certified by national professional associations. <citation>

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