

SHAURJYA BANERJEE

wholesomecircuits.com

661.877.0374

shaurjyab@gmail.com



website

EDUCATION

Bachelor of Fine Arts in Music Technology: Interaction, Intelligence and Design
Focus in Technical Direction and Experimental Animation
California Institute of The Arts 2018

Apprentice to Trimpin, MacArthur Fellowship awarded artist

Apprentice to Miti Adhikari, chief sound engineer at BBC Radio One

WORK EXPERIENCE

2018 - 2021 Technical Designer and Control Systems Technologist, Mindrix Inc.
2019 Special Faculty - Digital Fabrication and Practical Electronics, CalArts
2019 Electrical Engineering and Hardware Design - Amber Row VR Game
2018 - 2019 Interim Professor - Practical Electronics for the Curious Artist, CalArts
2015 - 2018 Teaching Assistant - DigiFab, Interface Design & Programming, CalArts
2015 Quality Assurance Automation Programming Engineer, Kadenze Inc.
2012 - 2014 Chief Recording and Mixing Engineer, BlooperHouse Studios

TECH DESIGN

- mechanical design
- complex assemblies
- electromechanical systems integration
- project management
- reverse engineering

ELECTRONICS

- circuit design
- rapid prototyping
- PCB design
- controls system design
- UL 508A control panel fabrication certified

DIGITAL FAB

- SolidWorks + Fusion 360
- AutoCAD + Illustrator
- 3D printing expert
- design for CNC
- technical drawings
- mechanical drawings

CODE + AUDIO

- Arduino development
- Processing + Chuck
- JavaScript + p5.js
- mixing & mastering
- Ableton Live, Max MSP
- sound synthesis

CGI + GAMES

- Cinema4D + Unity3D
- After Effects
- Premiere Pro
- websites + games
- interactive experiences
- controller design

FABRICATION

- metalworking
- manual lathe + milling
- MIG + TIG welding
- rough + finish carpentry
- cabinetry + joinery
- CNC operation

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TECHNICAL DESIGN

Extensive practical experience in the field of mechanical design. Strong fundamental understanding of mechanical principles and simple machines. 6 years of amateur and 3 years of professional experience as Technical Designer with a focus in electromechanical systems

TEACHING

Experience in creating curriculums to teach technical skills from a creative perspective. Taught two semester classes and two interim classes at CalArts focused on electronics fundamentals and digital fabrication. Passionate about teaching technique, process and developing mentor relationships

FILM MAKING

4 years holistic experience in independent filmmaking from scripting and cinematography to editing and color grading. Passionate about cameras, media and visual storytelling

ELECTRONICS

10 years experience in circuit development focused in the areas of robotics, motion control, sound synthesis and lighting effects. 5 years experience in Printed Circuit Board design using EagleCAD. Experienced with electronics design for manufacturing at scale

DIGITAL FABRICATION

Extensive expertise in parametric design and 3D modelling in SolidWorks, Fusion 360 and Inventor. Comfortable with 2D design using Adobe Illustrator. Practical experience in the operation, building and maintenance of 3D printers. Proficient in optimizing design for 3D printing

RADIO

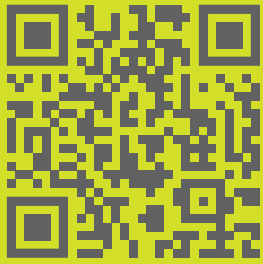
Licensed Amateur Radio Operator - Technician Class. Callsign KN6FBS. Foundational understanding of the propagation and real world applications of radio waves

AERIAL CINEMATOGRAPHY

Experienced UAS operator with 3 years experience in FPV and GPS-assisted drone piloting for indoor and outdoor cinematic applications. Experienced in the design and fabrication of custom drones tailored to specific cinematic needs

ASTRONOMY

Amateur Astronomer and Astrophotographer with 3 years experience in widefield and deep-sky astrophotography. Strong practical understanding of technical aspects of digital photography, image processing and astronomy



youtube



astronomy