Company Background: Atomic Cartoons is an artist-driven, multifaceted studio that includes some of North America's most creative animators, directors, producers, and writers.

Description of Work: We propose to explore the ink and paint workflow described this pilot project from GOOGLE

Generative Al for 2D Character Animation (acm.org)

Generative Al for 2D Character Animation (genai-2d-character-animation.github.io)

We would want to explore how we can use generative AI to assist in the ink and paint workflow in Toon Boom harmony or process frames after the render as an output.

Desired Skill Set for Students:

- Proficiency in machine learning, particularly image processing.
- Experience with TensorFlow or similar deep learning frameworks.
- Knowledge of ComfyUi would be beneficial.
- Strong problem-solving skills and a keen interest in exploring emerging technologies

Preferred Team Size: We seek a project team comprising 2 to 3 students. This team size fosters collaboration, facilitates brainstorming sessions, and enables efficient task delegation to achieve project objectives within the stipulated timeframe.

Potential for Internship: Outstanding students who demonstrate exceptional performance may be offered internship opportunities at the conclusion of the course, contingent upon mutual agreement and availability of positions within our organization.

Location: While the work can be conducted remotely to accommodate students' preferences, occasional virtual meetings would be necessary for project updates and discussions.

Non-Disclosure Agreement (NDA): To safeguard confidential information and intellectual property, students will be required to sign a non-disclosure agreement (NDA) prior to commencement of the project.

Intellectual Property Rights: We will request students to assign intellectual property rights to our organization for any artifacts generated during the project. This ensures that we retain ownership of the work and can leverage it for future initiatives and developments.

We believe that this project presents an exciting opportunity for students to apply their expertise in machine learning and GenAl to address real-world challenges in the industrial printing sector. We are eager to collaborate with motivated and talented individuals to drive innovation and deliver enhanced value to our customers.

