Architecture:
Silicon Valley and as a major hub in global tech realm, the landmark is a cluster of gardens and leisure spaces elevated 140ft from ground. It is a tribute to the technologies and the hard workers from all around the world who have come to contribute to the pass and future tech world cause. The Elevated structure has provided a spectacular panoramic view of the city and that is the ‘copper lining’ for all the hard work they do.

From far the tower contributes to the San Jose’s skyline as a Green ‘Pixelated Cloud’ and is seen hovering over the park. Up close, the structure is like a tree that has a canopy held up on a trunk This gives minimal interruption to the existing landscape. The ‘tree trunk’ is essentially a glass elevator takes you through the gardens and playgrounds. Algae tube is the main feature of the tower, it luminate it with an ambient of green to avoid major destructive to the existing ecosystem.

The ‘Pixelated Cloud’ work to provide energy to run the park whilst also providing relaxing leisure

Material:
The less glamorous side of working with computer is the tons of e-waste created each year. Indecipherable to layman’s eyes the printed circuit board, PCB,etc, allows components to be safely connected and insulated to a power source. This advancement in technology is idolized in the tower and the center of the park.

To extend the life of reusable computers and electronic devices, copper from discarded electronics will be recycled and reused for the underside of the ‘Cloud garden’ cladding to create the ‘copper lining’. With the unique California sun, the copper would reflect the sunlight and create a shiny golden state.

SJ as a lead in tech world, through architecture we can take this opportunity to showcase to the world how E-waste can contribute to the community in a physical sense harmoniously.

Energy:
To achieve net- zero energy, the tower is powered and ornamented by algae pipes, it is a bioreactor system where microalgae are cultivated. Through the algae pipes
Biofuel and biomass potential, Microalgae are efficient in the production of oil/ lipid per dry weight. Algae’s composition and the presence of fatty acids allow it to be a promising contributor for biomass for renewable energy.
Besides produce energy and by controlling the density of algae, it can create dynamic effects of light and shadow.