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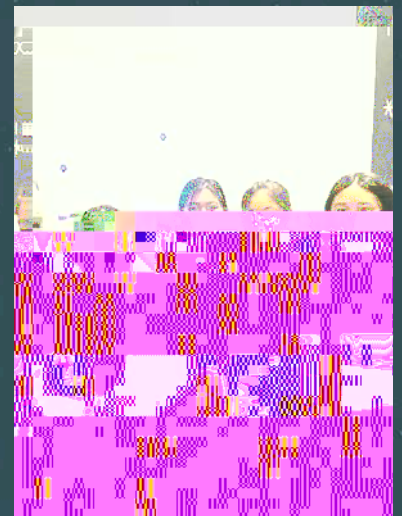
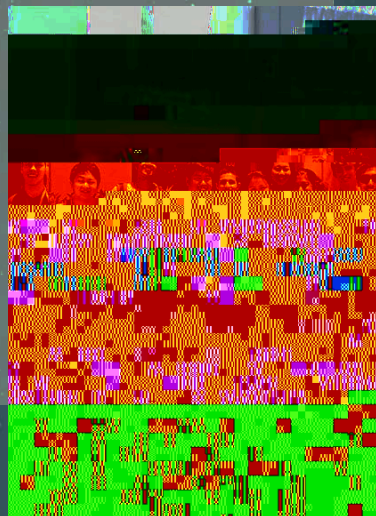
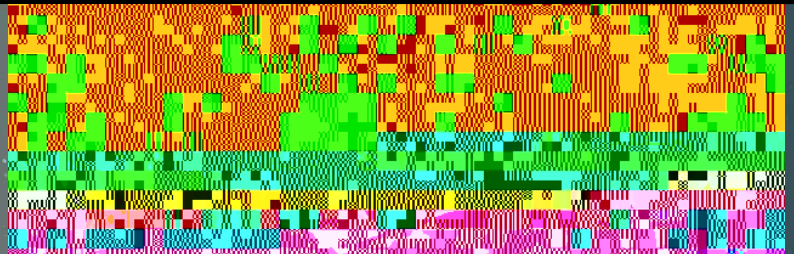
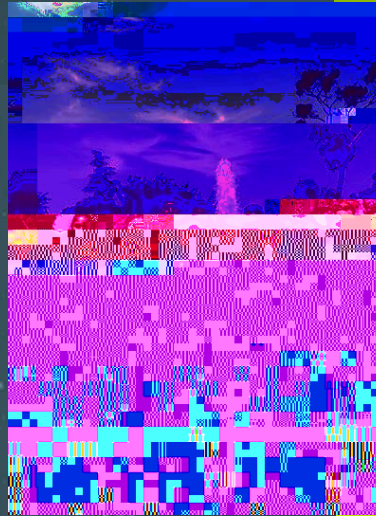
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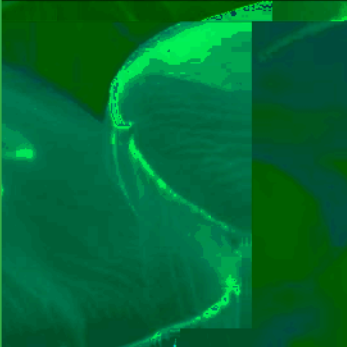
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NEW UC SAN DIEGO COSMOS

INSTRUCTOR



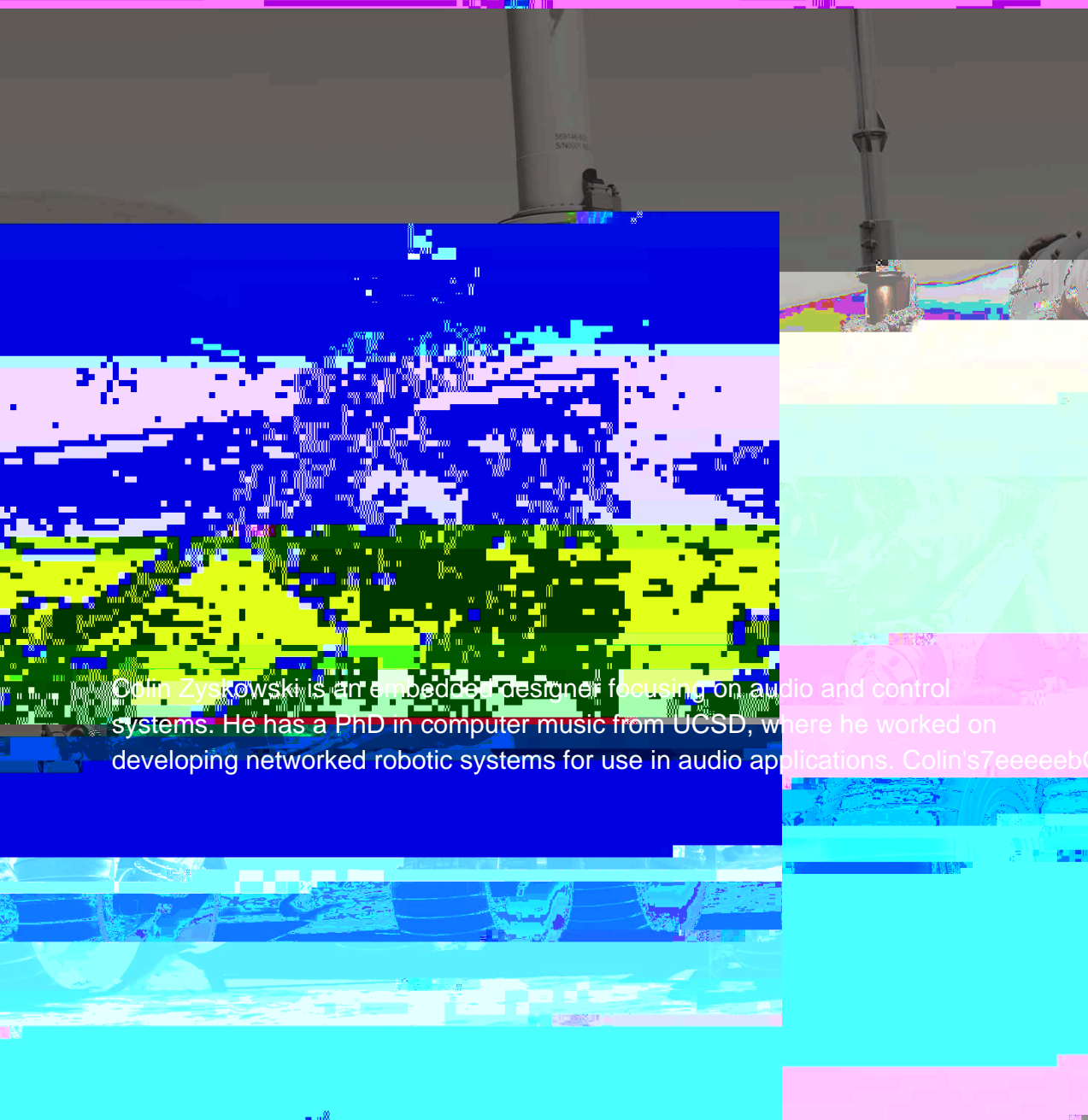
NEW UC SAN DIEGO COSMOS

INSTRUCTOR

Baghdadchi's research focus is on encoding light fields with phase and polarization modulations for tissue imaging and optical manipulation of nanoparticles. She is interested in scholarly teaching and uses active learning techniques to help students achieve an expert-like level of thinking. She guides students in bridging the gap between facts and usable knowledge to solve complex engineering problems. As part of her educational research in engineering, in the Summer of 2016 she designed and implemented a Teaching-as-Research project to study the effect of guided pre-reading and post-lecture assignments along with peer instruction on students' learning of core signal processing concepts. According to the results of her research, the active learning techniques she implemented in her course helped her students do substantially better than their peers attending the standard lecture based classes for the same course. She designs discovery-based labs for ECE undergraduate courses to stimulate students' conceptual

NEW UC SAN DIEGO COSMOS

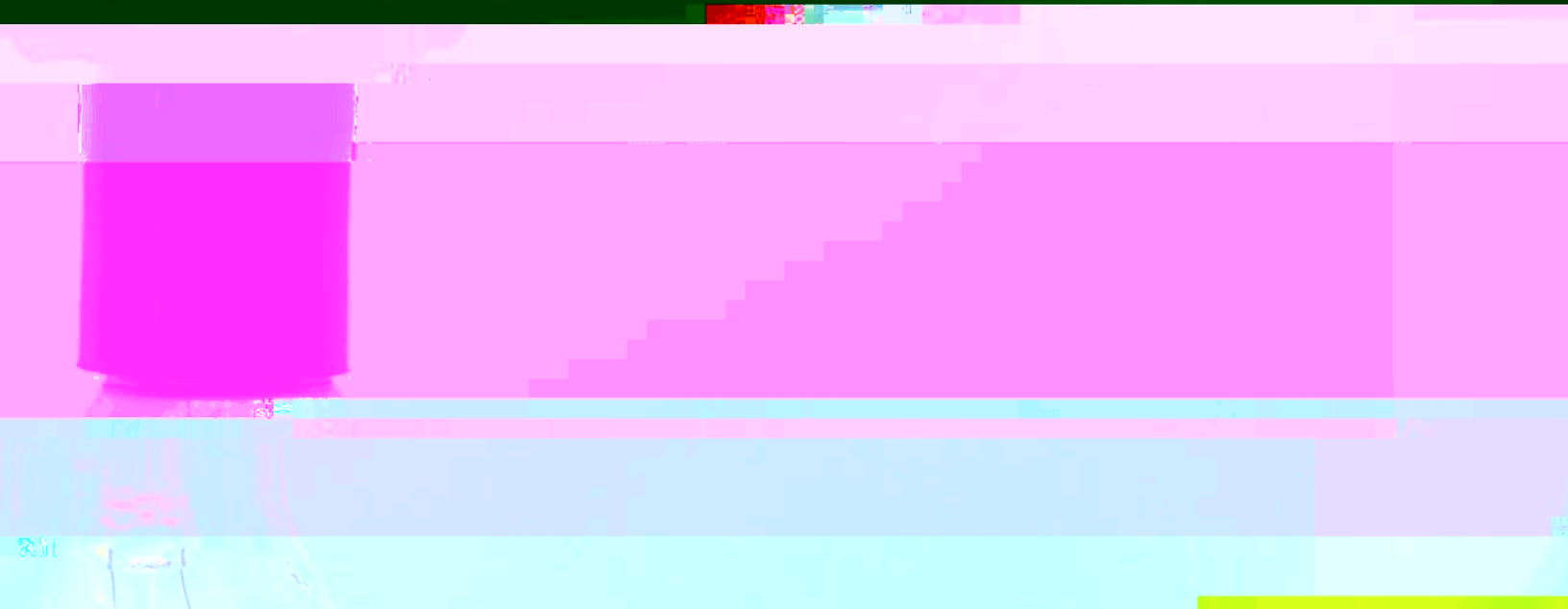
INSTRUCTOR



Colin Zyskowski is an embedded designer focusing on audio and control systems. He has a PhD in computer music from UCSD, where he worked on developing networked robotic systems for use in audio applications. Colin's



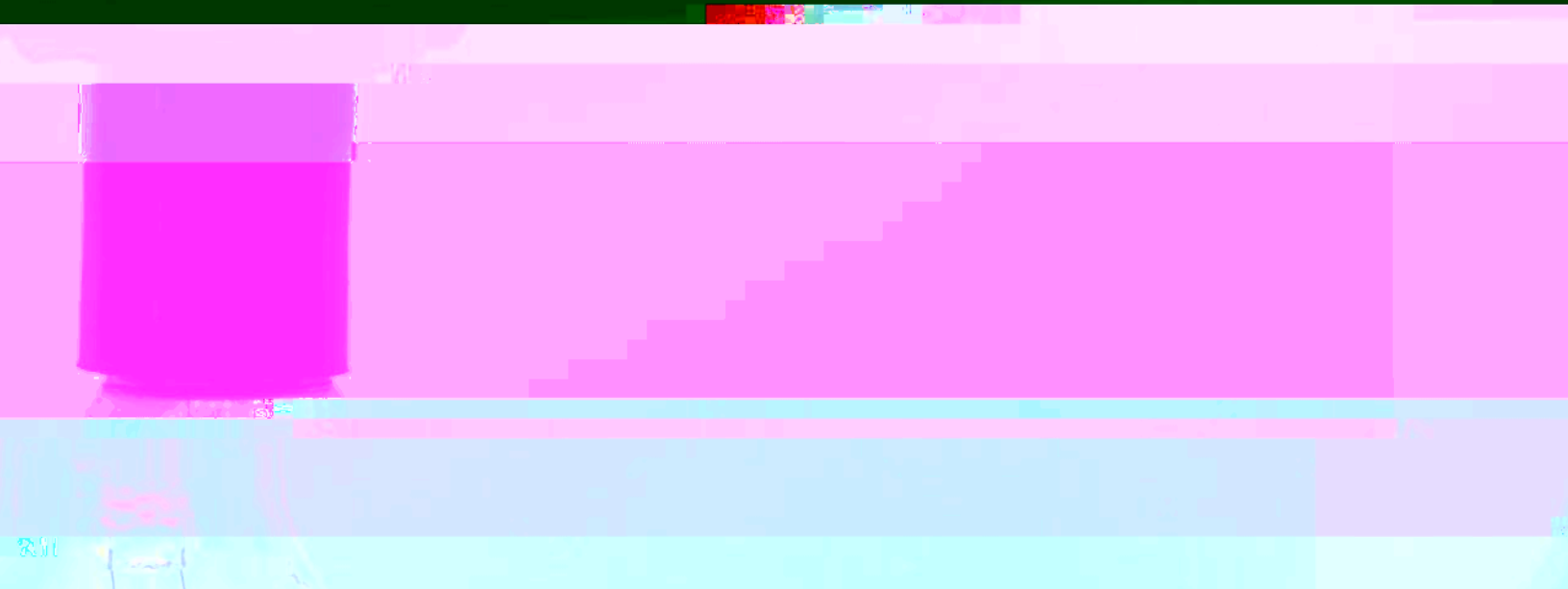
Alumni
SPOTLIGHT



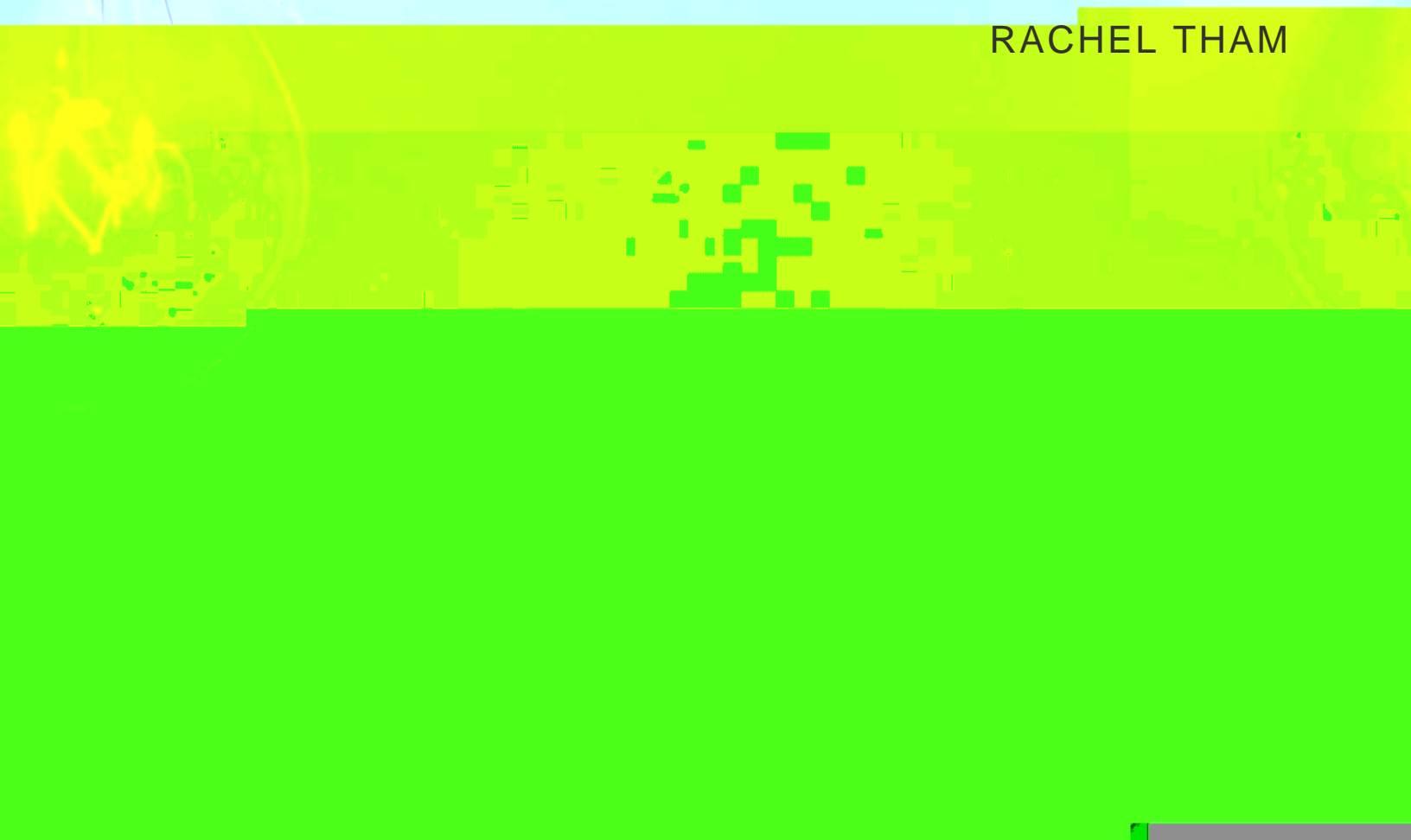
BRIAN PARK



Alumni
SPOTLIGHT



RACHEL THAM





Alumni SPOTLIGHT



ARSH MEHTA

"COSMOS opened my eyes to the world of engineering." -Mehta

"Before coming to the program I did not know what to expect. I walked in not knowing if I would like the curriculum or the program in general. At the graduation ceremony, I was sad to leave because those four weeks at COSMOS was the best time of my life. I made lifelong friends (Who I still talk to) and I figured out my future. Four weeks was definitely not enough and I wish I could go back and relive those days. After attending COSMOS Cluster 4 at UCSD, I knew I wanted to become a civil engineer. Ever since that summer, my life changed. Yes, I know that sounds cliché, but it is true. That one summer program impacted my course load during my senior year of high school and even in college. As a freshman at UCSD, I have already become involved with multiple project teams that focus on structural engineering."

