

IDEAS

INVENTING, DESIGNING, AND ENGINEERING FOR ALL STUDENTS

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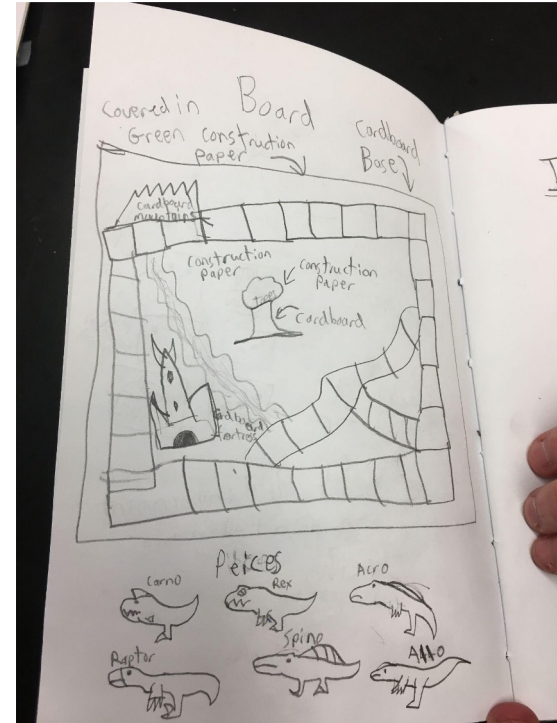
History of IDEAS 2016-2022

- Collaboration among EDC, NY Hall of Science, NYU, SRI and three NYC autism inclusion middle schools
- Collaboratively adapted NYSCI's 3D Design and Fabrication for NYC autism-inclusion schools
- Making is interest-based, informal, open-ended, which can benefit people who learn differently



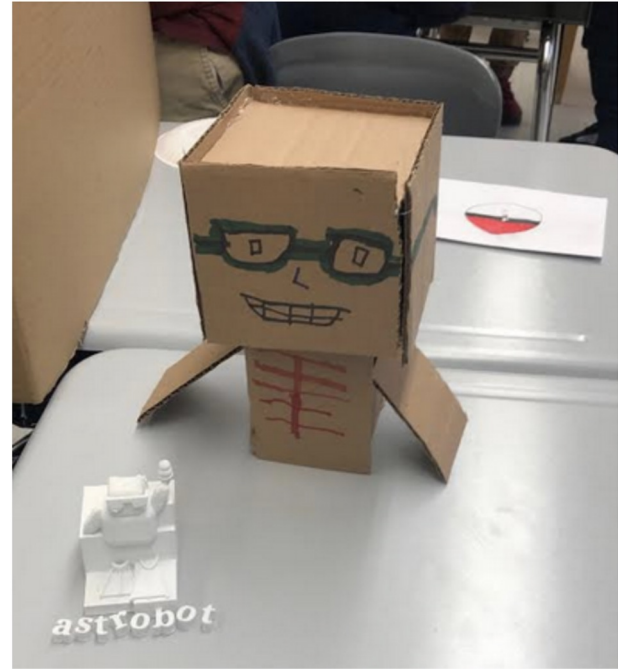
Making in inclusion settings

- We found that all students learned the engineering design process (Martin et al., 2020)
- Autistic students socialized with peers at the same rate as non-autistic students, completed interest-based projects and demonstrated increased self-efficacy (Chen et al. 2021)
- Teacher-facilitators saw what autistic students were capable of when not in formal classroom settings.



Scale up for IDEAS2

- Goal: expand to more middle schools and to elementary and high schools
- Developed a new World Building themed curriculum for elementary students focusing on familiar materials
- College maker mentorship programming for HS students



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Link to our curriculum: bit.ly/IDEAScurriculum

Link to our 2018 Stem for All Video Showcase: <https://stemforall2018.videohall.com/presentations/1193>

Link to our 2021 Stem for All Video Showcase: <https://stemforall2021.videohall.com/presentations/2007>