

**Our Mission: “To spark an interest and nurture a passion in students for participation in the fields of Science, Technology, Engineering, Entrepreneurship, Arts & Mathematics.” via educational classes and extracurricular activities.**



Applied Dynamics Initiative came together when, through the experience of our family with our teen daughter and some of her fellow students, began developing a strong passion for technology as they were introduced to the engineering and programming concepts of robotics via the **FIRST™ Inspires** organization. The enthusiasm and accomplishments we found to be positively addicting.

Observing the change in our daughter has made a profound impression on us, who until her introduction to **STEM** was considering a career as an Interior Designer but was now, after 3 years of robotics, on a solid path to a career in Engineering. Opportunities have really opened up for her having attended an Engineering camp sponsored by Duke Tlp at the University of Louisiana and Rice University in Houston this summer. It became clear to us that we wanted her experience to be shared and the opportunity provided to other students that might not have ever been introduced to **STEM/STEAM**.

Our research has shown that the younger you introduce students to **STEM/STEAM** concepts, the more likely they will stay on that trajectory towards a career in one of those fields, with the sweet spot being around the 5th, 6th and 7th grades which is especially true for girls.

**Applied Dynamics Initiative** is a community educational effort to introduce students and “hook them” on **STEM/STEAM**. This will be accomplished via extracurricular activities, with a heavy focus on robotics and will also include educational workshops for coding, Internet-of things product development, entrepreneurship, web development, and graphic design all meant to be in a work/life environment (habslabs.com) that is conducive to collaboration and flip/blended learning style.



We are currently in the fundraising and partnership development stage. Our immediate goal is to acquire an Industrial/Commercial space to begin offering our workshops and to have a makerspace that we can use to teach robotics and build robots.

**Applied Dynamics Initiative** currently has 2 robotics programs underway with the first being a **FIRST™ Tech Challenge** (ages 12-18) robotics team **ENIGMA** which currently has 9 students enrolled from all over the Alb./Rio Rancho area. The second is **CODE RED** a **FIRST™ Lego League** (ages 9-14) robotics team. So far we’ve been meeting in local libraries but as the FIRST Robotics season begins, it will be imperative that we get a work space.



Finally, we place a heavy emphasis on community outreach and would be honored to assist interested teachers, mentors and/or coaches in setting up a **STEM/STEAM** program for their students. For more information please contact us. Thanks for reading, Russ McCabe - VP | [russmc@adisteam.org](mailto:russmc@adisteam.org) | 505-620-4588 Mobile