

Sanza Kazadi '90



Dr. Sanza Kazadi is the founder, president, and chief scientist of the Jisan Research Institute, “the only professional research laboratory for students (ages 13-18).” JRI students conduct research in swarm engineering, evolutionary computation and sustainable energy systems, present their work in professional scientific conferences and journals, and contribute to new technologies some of which are patented.

Sanza inspires a spirit of exploration and of service in his students by connecting his research to questions that are important not just to science but also to humanity. As an example, Sanza and his students developed the distiller which uses energy derived from solar energy but that doesn't use a solar collector. The system functions via a process he calls *entrochemical* which uses a subtle thermodynamic trick. A poster presenting this work won best research poster at the Water Resources Research Center 2011 conference. Sanza's students are exploring ways of developing industrial and domestic versions of this system which can be built and maintained virtually anywhere in the world.

Sanza has authored more than fifty (50) papers, book chapters, and books. He earned his PhD (Computation and Neural Systems) and BS (Physics) degrees at the California Institute of Technology.