

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s) **Project Number** Zachary J. Becker 36632 **Project Title Constructing a 3D Printer from Scratch Abstract Objectives/Goals** My objective is to construct a working 3D printer without using a pre-assemble Methods/Materials 3D Printer assembled from parts from multiple sources, including homemade. La p, Repetier-Host and Repetier-Firmware, freeware 3D printer software developed by Revetier. I was successfully able to construct and program a 3D or hter constructed fully from scratch. **Conclusions/Discussion** I realized that it is fully possible for someone my age to assemble complex systems. However, there are also many improvements that I would make if the experiment we **Summary Statement** entirely from scratch. construct **Help Received** My father helped me to cut the wood and metal rods, and taught me how to solder. Various users of the #Reprap Freenode IRC Chatroom, helped me to program the 3D printer.