Build a Line Following Robot – Raspberry Pi Classes

By Patrick Dees, Special Projects Director

The Greater Huntsville Section this Summer hosted a 3-part hands-on Raspberry Pi construction project aimed at building a line following robot. Student, Professional, and Educator members came together in the Von Braun Research Hall at UAH to put hardware and software together to form some feisty buggies! Attendees got hands-on experience with the Raspberry Pi, soldering, wiring motors and controllers, several kinds of sensors to control movement, attaching hardware pieces together,

working with the Raspberry Pi Operating System Raspbian, working with Python code, and using a Python robotics library to control their Buggy. In the end each attendee went home with their buggy and additional supplies from which they can start their own Raspberry Pi adventures! Instructions for the Buggy can be found [here](#).