

# Quotation

## FTC Clay Rookie Mentor Summer Bootcamp

Prepared by Mark McCombs, CEO of Renaissance Robotics and Engineering, LLC

Bootcamp Dates: July 22-26

Location: 2671 Gilmore Street, Jacksonville, FL, 32204

### Scope of Work:

FIRST (For Inspiration and Recognition of Science and Technology) is a non-profit that offers 4 distinct levels of robotics competitions to children in grades k-12. This year marks the start of at least 5 new FTC (FIRST Tech Challenge) teams in Clay County secondary schools.

In order to ensure the success of the expansion of FIRST through Clay County, a **Rookie Mentor Bootcamp** class will be offered by Mark McCombs, a 12-year FIRST veteran and Mechanical Engineer. The class will provide training for design, construction, programming, and robot testing as well as FTC League organizing to incorporate Duval and Nassau County rookie FTC teams for League Play in Fall 14' – Spring 15.

Bootcamp will take place in the manufacturing house of Renaissance Robotics and Engineering located near the junction of I-10 and I-95 in the Riverside area.

### **July 22-26 (Tuesday – Friday 3pm-8pm, Saturday Noon-6pm)**

Day 1 – Teachers will become familiar with the FTC Kit of Parts as well as how an FTC Season operates.

- Each team will set a schedule and test it during the rest of the camp. The condensed time of the camp will allow for 6 weeks of work to be completed in 4 days.
- Available online and local resources will also be covered.
- Preliminary Design and Build
- Basic Field Setup

Day 2 – Design, Build, Test, Communications, and Programming

- Mechanisms, Motors, and Wiring
- This day will be a fun build session where design logic and mechanical problem solving methods will be covered.

Day 3 – Team Formation, Fundraising, FIRST Ethos, Service Hours, Scholarships

- Action Plans for Fundraising, and how to get the kids involved at every step of the process of keeping your team going – Make them OWN IT!
- More Robot testing
- The FTC Arena will be in use by all groups on this day

# Quotation

## Day 4 – Team Websites and Soft Goods

- There are many things that will take a group of individuals and make them come together as a real team. We will cover the following, and offer to assist with:
  - Web and Logo Design
  - Server Hosting for saving code and website data
  - Screen Printing team shirts
  - Other activities that help the team to associate robotics with high energy fun
- More robot design, build, and test

## Day 5 – FTC Renaissance Certification and Bootcamp Graduation

- End of Bootcamp competition for teachers
- Each group will present what they learned, and outline what other support they would like to have during the season.
- Graduation Celebration

By the end of Bootcamp, coaches will have had almost an entire FTC season in 26 hours broken into 5 days.

### Cost Breakdown

**Hourly Rate**      \$175/hour

### Cost Per Day

5 hours	Tuesday	\$875
5 hours	Wednesday	\$875
5 hours	Thursday	\$875
5 hours	Friday	\$875
6 hours	Saturday	\$1,050

<b>Total</b>	<b>\$4,550</b>
--------------	----------------

Ongoing Support and Mentorship will be available, and billed at \$175/hour through June 30<sup>th</sup> 2015 and will be performed either on-site at Clay County Schools, or at 2671 Gilmore St on an as-needed basis. Location to be determined by the school district.