

245 "VALENCIA" ADAMBOTS

Chassis & Drivetrain

- Custom chassis design with 4-wheel drive
- 8" pneumatic wheels
- Dual CIM Motor transmission for each side
- Two speed transmission ~ 15 ft/sec in high gear and 6 ft/sec in low

Defense Crossing / Climbing

- Can cross both defenses in category A (Portcullis & Cheval de Frise)
- Can cross both defenses in category B (Moat & Ramparts)
- Can cross one defense in category C (Drawbridge)
- Can cross both defenses in category D (Rock Wall & Rough Terrain)
- Can challenge the tower

Shooting/Boulder Control

- Catapult shooter for high goal scoring
- Ability to shoot from different points in the courtyard
- Ground Boulder pick up with reverse for low goal scoring

Controls & Programming

- Potentiometer to control angle of arm
- Dual camera system (both front & rear)
- Programmed in Java
- Vision Processing for shooting

Autonomous

- Move to defense
- Cross chassis-based defenses

