

245

“VALENCIA” AdamBots

Chassis & Drivetrain

- Custom chassis design with 8-wheel drive (4 corners dual wheel)
- 8” wheels with 1” offset provides continual traction through rough terrain
- 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 both defenses in category C (Drawbridge & Sallyport (50% success))
- Can cross both defenses in category D (Rock Wall & Rough Terrain)
- Can challenge the tower
- Can scale the tower

Shooting/Boulder Control

- Catapult shooter
- Ability to shoot from different points in the courtyard
- Ground Boulder pick up

Controls & Programming

- String 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

