Main Program for Alpha and Gamma Blades
Version 1.3

Begin Program → Initialize I/O ports, peripherals, and variables → display_health() (Austin) → determine_sword_was_swung() (Derrian)

Sword was swung and health > 0?
- No → (back to display_health())
- Yes → determine_omega_mode_active() (Derrian)

Omega mode active?
- Yes → display_blade_lights() (Austin)
- No → determine_packets_to_send() (Derrian)

All non-zero packets sent?
- Yes → display_blade_lights() (Austin)
- No → output_ir() (Brandon) → (back to All non-zero packets sent?)

display_blade_lights() (Austin) → Disable IR reception interrupt → Stun counter > 0 and Omega mode not active?
- Yes → Enable IR reception interrupt → Delay 100 ms → Enable IR reception interrupt → Disable IR reception interrupt → (to display_health())
- No → Enable IR reception interrupt → (to display_health())