



CLAWBOLT

A Telegram-Controlled Antigravity AI Agent with Real-Time Screen Awareness

“Vibe coding meets remote AI control.”

1. PROJECT OVERVIEW

CLAWBOLT is a Telegram-driven control layer that:

- Forwards user messages into Antigravity AI's “Ask anything” input box
 - Tracks Antigravity's dynamic UI movement
 - Streams real-time AI activity (screenshots, progress, errors)
 - Executes system & agent commands independently of AI quota limits
 - Handles password prompts (screen lock & keyring) remotely via Telegram
 - Survives Antigravity restarts, crashes, and system reboots
-

2. CORE CONCEPT

Message Flow (Normal Chat)

Telegram User



Telegram Bot



CLAWBOLT Router



Context Injector



Antigravity “Ask anything” Input Box



```
Antigravity Processing
↓
Live Screen Capture + Status
↓
send_telegram.py (Realtime Updates)
```

Command Flow (

/command

)

```
Telegram User
↓
Command Parser
↓
Agent Script (Independent of AI)
↓
System / Screen / Files / State
↓
send_telegram.py
```

3. DEFAULT CONTEXT INJECTION

Before every normal message, CLAWBOLT injects:

Context:

Your response will be sent via send_telegram.py.

Respond with clear steps.

If processing takes time, output progress.

If errors occur, explain the cause.

User Message Format

What programming language? ↵

Space + Enter triggers send → avoids premature injection

4. ANTIGRAVITY INPUT BOX PROBLEM (CRITICAL)

Problem

- “Ask anything” input box:
 - Moves location dynamically
 - Changes window hierarchy
 - Fresh launch ≠ continuous session

CLAWBOLT SOLUTION (Hybrid Detection)

1.

Visual Anchoring

- OCR scan for:
 - "Ask anything"
 - "Type your question"
- Bounding box detection

2.

UI Tree Scanning

- Linux tools:
 - xdotool
 - wmctrl
 - xprop
 - pyatspi

3.

Fallback Mode

- If input box not found:

- Screenshot sent to Telegram
- Status: WAITING_FOR_INPUT_BOX
- Retry every X seconds

4.

Manual Override

- /screen
 - User visually confirms state
-

5. REAL-TIME AI PROCESS STREAMING

Every Antigravity response produces:

-  Screenshot
-  Status message
-  Progress update
-  Error detection (if any)

Update Frequency

- Adaptive:
 - Idle → every 5s
 - Typing → every 1s

- Error → immediate
-

6. TELEGRAM COMMAND SYSTEM

Commands do not rely on Antigravity AI

/rules

Displays all agent commands.

/report

System report:

- OS version
 - CPU / RAM
 - Disk
 - GPU
 - Antigravity status
 - CLAWBOLT uptime
-

/screen

- Instant screenshot
 - Auto-sent to Telegram
-

/hear <value>

Sets:

- Monitoring sensitivity
 - Screen polling rate
 - Input detection threshold
-

/watch <time>

Screen recording:

/watch 30s

/watch 2m

- Saves video
 - Sends to Telegram
-

/restart

- Closes Antigravity
 - CLAWBOLT remains alive
 - Polls until Antigravity reopens
 - Rebinds input mapping
-

/sysrest

System reboot:

- Requires confirmation:

YES

NO

- On reboot:
 - CLAWBOLT auto-starts
 - Antigravity auto-launches
-

/syslogout

Logs out current user session

Requires YES/NO validation

/ls <path>

Remote file listing.

/save

- Zips current CLAWBOLT state
 - Logs
 - Config
 - Screens
 - Sends zip to Telegram
-

/quota

- Displays:

- AI model
 - Rate limits
 - Token estimates
 - Uses local quota detection lib
-

7. PASSWORD & KEYRING DETECTION (SECURITY CORE)

Triggers

- Screen lock wake
- Antigravity keyring popup
- System authentication dialog

Detection Method

- OCR keywords:
 - “Password”
 - “Authentication required”
 - “Keyring”
- Window class detection

Flow

Password Dialog Detected



Telegram Notification



User Sends Password



Secure Injection
↓
Continue Execution



Passwords:

- Never logged
 - Memory-only
 - Immediately wiped after use
-

8. TELEGRAM AUTHENTICATION

Required:

- Bot Token
- Allowed User ID
- Optional: Admin list

Unauthorized users:

- Ignored
 - Logged
 - Optional alert
-

9. TECHNOLOGY STACK

Language

- Python 3.11+

Core Libraries

- python-telegram-bot
 - pyautogui
 - opencv-python
 - pytesseract
 - Pillow
 - xdotool
 - wmctrl
 - psutil
 - watchdog
 - ffmpeg
-

10. DIRECTORY BLUEPRINT

CLAWBOLT/

```
  |  
  +-- core/  
  |    +-- router.py      # Message & command dispatcher  
  |    +-- context_injector.py  
  |    +-- antigravity_mapper.py # Dynamic input box locator  
  |    +-- screen_watcher.py  
  |    +-- password_detector.py  
  |  
  +-- agent/  
        +-- rules.py  
        +-- report.py  
        +-- screen.py  
        +-- watch.py  
        +-- restart.py  
        +-- sysrest.py  
        +-- syslogout.py
```

```
ls.py  
save.py  
quota.py  
  
telegram/  
    bot.py  
    send_telegram.py  
    auth.py  
  
system/  
    autostart.service  
    antigravity_launcher.sh  
    recovery.py  
  
storage/  
    screenshots/  
    recordings/  
    logs/  
    states/  
  
config/  
    settings.yaml  
    secrets.env  
  
docs/  
    architecture.md  
    commands.md  
    security.md  
    roadmap.md  
  
main.py
```

11. ROADMAP (PHASED)

PHASE 1 – Foundation

- Telegram bot
- Auth
- /screen, /report

PHASE 2 – Antigravity Integration

- Input box mapping
- Context injection
- Screenshot streaming

PHASE 3 – Agent Commands

- Full /command set
- Independent execution

PHASE 4 – Security & Recovery

- Password detection
- Restart polling
- Crash recovery

PHASE 5 – UX & Optimization

- Adaptive screen rates
 - Error visualization
 - Logs & telemetry
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12. WHAT MAKES CLAWBOLT DIFFERENT



AI-independent control



Real-time UI awareness

 Remote password handling

 Crash-proof agent

 Telegram as a full control console