

Installation Guide

Introduction

This guide provides step-by-step instructions for installing and setting up the USB Drop Attack Simulation project using the Digispark ATTiny85 microcontroller.

Required Materials

- Digispark ATTiny85 USB development board
- Windows PC (Windows 7, 8, 10, or 11)
- Arduino IDE (version 1.8 or later)
- Digispark drivers (located in the Drivers/ folder)

Step 1: Install the Arduino IDE

Download and install the Arduino IDE from the official Arduino website: <https://www.arduino.cc/en/software>

Step 2: Configure Arduino for Digispark

1. Open the Arduino IDE.
2. Go to File > Preferences.
3. In the 'Additional Board Manager URLs' field, add the following URL:
`http://digistump.com/package_digistump_index.json`
4. Click OK.

Step 3: Install Digispark Board Support

1. Go to Tools > Board > Boards Manager.
2. Search for 'Digistump AVR Boards'.
3. Click Install.

Step 4: Install Digispark Drivers

1. Navigate to the 'Drivers' folder included with this project.
2. Extract 'Windows_Drivers.zip'.

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3. Run the driver installation utility.
4. Follow on-screen instructions to complete installation.

Step 5: Upload the Payload

1. In Arduino IDE, go to Tools > Board and select 'Digispark (Default - 16.5 MHz)'.
2. Open the 'digispark_payload.ino' file located in the Source folder.
3. Click the Upload button in the IDE.
4. When prompted, plug in the Digispark device.
5. Wait for the upload to complete.

Step 6: Verify Installation

1. Remove and reinsert the Digispark into a USB port on a Windows PC.
2. Notepad should open and display the scripted message.
3. If successful, the setup is complete.

Troubleshooting

- If the device is not recognized, try a different USB port.
- Ensure drivers were installed correctly.
- Try uploading again or using a different Windows machine.