

Face Drawing Robot Demo Setup Guide

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This guide walks you through setting up and running the Face Drawing Robot Demo locally.

Prerequisites

- Node.js and npm installed
 - Laptop connected to robot with ethernet
 - URCap: Remote TCP & Toolpath installed on robot
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Backend Setup

1. Open a terminal and navigate to the backend folder:

```
cd UR_Demo_Webcam_Drawing_webUi/backend
npm install
npm run dev
```

2. Open a second terminal and navigate to the frontend folder

```
cd UR_Demo_Webcam_Drawing_webUi/frontend
npm install
npm start
```

3. In UR_Demo_Webcam_Drawing_webUi/backend/pages/api/send-to-robot.js change
const ROBOT_IP = '192.168.1.160'; to the IP address of the robot you are
connecting to.

4. The WebUI should be hosted on `localhost:3000` on your browser.
5. Use WebUI to take a picture with the device camera, or upload a picture. Click `Save GCode` , then `Process Edges` , then `Send to Robot` buttons.
6. `output.nc` file should appear in robot's `/programs` file.



Robot Setup

1. Make a simple program on the robot. Add a toolpath from the URCap `Remote TCP & Toolpath`
2. Create a feature plane of the drawing plane
3. Teach TCP of drawing tool
4. Select `output.nc` from the `\programs` folder