

# Angel Penchev

## Software Developer

An award-winning software developer with 5 years of experience in the field of programming.



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## EDUCATION

### System Programming

Technology School Electronic Systems (TUES),  
associated with Technical University-Sofia

09/2016 - 06/2021

GPA 5.50 out of 6.00

## PROJECTS

### Eleggo (03/2021 - Present)

- Eleggo is a programmable brain computer interface.
- The system comprises of a EEG helmet with a custom circuit board, machine learning models for thought pattern recognition, a centralized server and a web client for interacting with the system.
- More details at [tuesfest.bg/projects/44](https://tuesfest.bg/projects/44).

### DRUN (10/2020 - Present)

- DRUN is an autonomous drone delivery system.
- The platform was comprised of an embedded drone which uses a deep Q-learning neural network for control, a centralized server and a user-facing cross-platform mobile app.
- More details at [tuesfest.bg/projects/45](https://tuesfest.bg/projects/45).

### Traffic Brain (09/2019 - 06/2020)

- Traffic Brain is an open-source traffic light control system.
- The system includes a vehicle recognition machine learning model, a custom-build embedded traffic light device, a centralized server and a front-end client for controlling the entire system.
- More details at [2020.tuesfest.bg/projects/7](https://2020.tuesfest.bg/projects/7).

### Readability (03/2019 - 04/2019)

- Readability is a platform for helping the visually impaired to convert captured text to the braille alphabet.
- The project is comprised of a mobile application for Android and iOS, which captures text using the device's camera, recognizes it using Firebase ML Kit and sends it to an embedded device, which converts it letter by letter to braille alphabet.
- More details at [github.com/angel-penchev/readability](https://github.com/angel-penchev/readability).

## WORK EXPERIENCE

### Intern TelebidSchool

07/2020 - 07/2020

Sofia, Bulgaria

TelebidSchool (part of TelebidPro) is an organization whose emphasis is on code writing training and practical problem solving.

#### Achievements/Tasks

- Developed a complete full-stack application for banknote serial number recognition.
- Used Python and TensorFlow for machine learning in order to perform practical computer vision tasks.
- Used Node.js to develop a backend server which handles image recognition requests.
- Used Angular to create a frontend client from which users can access the system.

## SKILLS

Python

TypeScript

Dart + Flutter

Java

Machine Learning

TensorFlow

Spring Boot

Node.js

Flask

Docker

Nginx

Linux

Angular

React

C

C++

Git

SQL

## LANGUAGES

### Bulgarian

Native or Bilingual Proficiency

### English

Full Professional Proficiency

## CERTIFICATES

### CCNA: Switching, Routing, and Wireless Essentials (07/2021)

Issued by Cisco

### CCNA: Introduction to Networks (10/2020)

Issued by Cisco

### Certificate in Advanced English (08/2019)

Issued by Cambridge Assessment English

### First Certificate in English (07/2017)

Issued by Cambridge Assessment English

## VOLUNTEER EXPERIENCE

### Site Administrator

Technology School Electronic Systems (TUES),  
associated with Technical University-Sofia

05/2020 - 06/2021

Sofia, Bulgaria

Website administrator of [elsys-bg.org](https://elsys-bg.org).

## HONOR AWARDS

### 4th Place at the National Computer Networks Competition 2021 (06/2021)

Ranked 4th out of 68 participants at the National Competition in  
Computer Networks with a grade of 6.00.

### 1st Place at HackTUES 6 (10/2020)

Won 1st place in the 6th edition of the annual HackTUES hackaton by  
creating a prototype for an autonomous drone delivery system, named  
"DRUN".

### Special Prize at TUES Fest 2020 (06/2020)

Won the "Better Future" special prize at the TUES Fest 2020 annual  
technological project showcase event for the creation of an automated  
traffic light control system named "Traffic Brain".