

# Andrei Biswas

MUSICALLY ENTHUSED COMPUTER ENGINEER

00606 Nathaniel Rochester Hall, Rochester, NY 14623

☎ (+1) 857-928-7243 | ✉ axb6972@rit.edu | 📱 andreibiswas

## Career Objective

To apply the knowledge of Computer Engineering principles and gain valuable experience through co-op employment. Available January through August 2019.

## Education

### Rochester Institute of Technology

Rochester, New York

BS IN COMPUTER ENGINEERING (HONORS PROGRAM) | Cum. GPA: 3.70/4.00 | C.E. GPA: 4.00/4.00

Aug. 2016 - May 2021

• **Awards:** RIT Founders Scholarship for International Students; Dean's List Fall 2016; Dean's List Spring 2017; Dean's List Fall 2017

• **Courses:**

- Project-Based Calc. II
- Multivariable Calc.
- Differential Equations
- Discrete Math for Computing
- Intro. to C.E. w/ Lab
- Digital System Design I w/ Lab
- Assembly Language Prog. w/ Lab

### The Governor's Academy

Byfield, Massachusetts

HIGH SCHOOL DIPLOMA

Sept. 2012 - June 2016

## Experience

### Analyzing Audio Signals for Machining Monitoring with Support Vector Machine

Rochester, New York

UNDERGRADUATE RESEARCH ASSISTANT AT RIT

May 2017 - Present

- Developed an online monitoring system with a partner that takes sounds produced by different machining processes and labels them according to a classifier created by a support vector machine algorithm.

## Project & Labs

- Programmed an AI in Java for a pathbuilding game that could compete against humans as well as other AIs.
- Programmed a game in mixed C and ARM Assembly Language with user interaction and rules on a FRDM-KL46Z board.
- Worked in a 5-person team to develop a WebCheckers website respecting Agile methodology using Spark with Java, HTML, and JavaScript.
- Built a circuit on a breadboard with IC chips that performed various Boolean expressions simplified using Boolean algebra for different LED outputs.
- Programmed a GUI using Python that generated questions for the user to answer and produced clickable links to websites that the user could use for help with mental-health issues.

## Skills

<b>Programming</b>	Python, Java, ARM Assembly, C, VHDL, HTML, Flask with Python, Spark with Java, JavaScript, LaTeX
<b>Software</b>	Altera Quartus, ModelSim
<b>Hardware</b>	Oscilloscope, Digital Multimeter
<b>Languages</b>	Fluent in English, Bengali, French, and Hindi

## Extracurricular Activity

### Audio Engineering Society (AES)

Rochester, New York

VICE PRESIDENT

Aug. 2017 - Present

- Held weekly meetings to discuss audio engineering techniques and track breakdowns.
- Gained expertise on recording techniques and on Digital Audio Workstations.

### The Reading Room (Indie Record Label)

Rochester, New York

ARTIST

Apr. 2017 - Present

- Composed and accompanied some tracks released under the label.
- Produced and released a track that has currently +48k plays on SoundCloud.

### RIT Jam Club

Rochester, New York

MEMBER

Jan. 2017 - Present

- Taught other piano players how to do simple improvisation.

### Volunteer: DASTAK

New Delhi, India

TEACHER

Aug. 2015

- Taught the English language to girls who were in grade 10 whose mother tongue is Hindi.

### Volunteer: CENSOIFF: ONG Centre Solidarité

Abidjan, Ivory Coast

TEACHER

Aug. 2013

- Taught the English language to a group of 16 children, aged 7-15, whose mother tongue is French.
- The work attracted a lot of attention and an article was published in a local newspaper.