Andrei **Biswas**

MUSICALLY ENTHUSED COMPUTER ENGINEER

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Career Objective

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

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, Massachussetts*

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

Programming	Python, Java, ARM Assembly, C, VHDL, HTML, Flask with Python, Spark with Java, JavaScript, LaTeX
Software	Altera Quartus, ModelSim
Hardware	Oscilloscope, Digital Multimeter
Languages	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 proficiency 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.